



5

## References

Adams KL. and Palmer JD. 2003. Evolution of mitochondrial gene content: gene loss and transfer to the nucleus. *Molecular Phylogenetics and Evolution* 29:380-395.

Adams KL., Clements MJ. and Vaughn JC. 1998. The *Peperomia* mitochondrial *cox1* group I intron: timing of horizontal transfer and subsequent evolution of the intron. *Journal of Molecular Evolution* 46:689-696.

Adams KL., Daley DO., Qiu Y-L., Whelan J. and Palmer JD. 2000. Repeated, recent and diverse transfers of a mitochondrial gene to the nucleus in flowering plants. *Nature* 408:354-357.

Adams KL., Qiu YL., Stoutemyer M. and Palmer JD. 2002. Punctuated evolution of mitochondrial gene content: high and variable rates of mitochondrial gene loss and transfer to the nucleus during angiosperm evolution. *Proceedings of the National Academy of Sciences, USA* 99:9905–9912.

Adams KL., Song K., Roessler PG., Nugent JM., Doyle JL., Doyle JJ. and Palmer JD. 1999. Intracellular gene transfer in action: Dual transcription and multiple silencings of nuclear and mitochondrial *cox2* genes in legumes. *Proceedings of the National Academy of Science USA* 96:13863-13868.

Akey CW. 1992. The nuclear pore complex. *Current Opinions in Structural Biology* 2: 258-263.

Allen JF. and Raven JA. 1996. Free-radical-induced mutation vs. redox regulation: Costs and benefits of genes in organelles. *Journal of Molecular Evolution* 42: 482-492.

Andersson SG. And Kurland CG. 1998. Reductive evolution of resident genomes. *Trends in Microbiology* 6:263-268.

Aoki S. and Syano K. 1999. Horizontal gene transfer and mutation: *Ngrol* genes in the genome of *Nicotiana glauca*. *Proceedings of the National Academy of Science USA* 96:13229-13234.

Arganoza MT., Min J., Hu Z and Akins RA. 1994. Distribution of seven homology groups of mitochondrial plasmids in *Neurospora*: evidence for widespread mobility between species in nature. *Current Genetics* 26:62-73.

Arimura S, Yamamoto J, Aida GP, Nakazono M, Tsutsumi N. (2004) Frequent fusion and fission of plant mitochondria with unequal nucleoid distribution. *Proceedings of the National Academy of Sciences, USA* 101 7805-7808.

Ashby MK., Warry A., Bejarano ER., Khashoggi A., Burrell M. and Lichtenstein C. 1997. Analysis of multiple copies of geminiviral DNA in the genome of four closely related *Nicotiana* species suggest a unique integration event. *Plant Molecular Biology* 35:313-32.

Ayliffe MA. and Timmis JN. 1992. Tobacco nuclear-DNA contains long tracts of homology to chloroplast DNA. *Theoretical and Applied Genetics* 85:229-238.

Bakkeren G., Koukolikova-Nicola Z., Grimsley N. and Hohn B. 1989. Recovery of *Agrobacterium tumefaciens* TDNA molecules from whole plants early after transfer. *Cell* 57: 847-857.

Baldauf SL. 2003. The deep roots of eukaryotes. *Science* 300:1703-1706.

Bejarano ER., Khashoggi A., Witty M. and Lichtenstein C. 1996. Treasures in the attic: Rolling circle transposons discovered in eukaryotic genomes *Proceedings of the National Academy of Science, USA* 93:759-764.

Bennetzen JL. and Kellogg EA. 1997. Do plants have a one-way ticket to genome obesity? *The Plant Cell* 9:1509-1514.

Bergthorsson U., Adams KL., Thomason B. and Palmer JD. 2003. Widespread horizontal transfer of mitochondrial genes in flowering plants. *Nature* 424:197-201.

Bergthorsson U., Richardson AO., Young GJ., Goertzen LR. and Palmer JD. 2004. Massive horizontal transfer of mitochondrial genes from diverse land plant donors to the basal angiosperm *Amborella*. *Proceedings of the National Academy of Sciences, USA* 101:17747-17752.

Blanchard JL. and Lynch M. 2000. Organellar genes why do they end up in the nucleus? Trends in Genetics 16:315-320.

Brennicke A., Grohmann L., Hiesel R., Knoop V. and Schuster W. 1993. The mitochondrial genome on its way to the nucleus: different stages of gene transfer in higher plants. FEBS Letters 325: 140-145.

Broothaerts W., Mitchell HJ., Weir B., Kaines S., Smith LMA., Yang W., Mayer JE., Roa-Rodri'guez C. and Jefferson R. 2005. Gene transfer to plants by diverse species of bacteria. Nature 433:629-633.

Bundock P., den Dulk-Ras A., Beijersbergen A. and Hooykaas PJJ. 1995. Transkingdom T-DNA transfer from *Agrobacterium tumefaciens* to *Saccharomyces cerevisiae*. EMBO Journal 14: 3206-3214.

Canback B., Andersson SGE. and Kurland CG. 2002. The global phylogeny of glycolytic enzymes. Proceedings of the National Academy of Sciences, USA 99:6097-6102.

Cavalier-Smith T. 1987. The simultaneous symbiotic origin of mitochondria, chloroplasts, and microbodies. Annals of the New York Academy of Science 503:55-71.

Cavalier-Smith T. 2002. The phagotrophic origin of eukaryotes and phylogenetic classification of Protozoa. International Journal of Systematic and Evolutionary Microbiology 52:297-354.

Chase MW., Salamin N., Wilkinson M., Dunwell JM., Kesanakurthi RP., Haidar N. and Savolainen V. 2005. Land plants and DNA barcodes: short-term and long-term goals. Philosophical Transactions of the Royal Society B: Biological Sciences 360:1889-1895.

Chen X., Stone M., Schlaghauser C and Romaine CP. 2000. A fruiting body tissue method for efficient *Agrobacterium*-mediated transformation of *Agaricus bisporus*. Applied and Environmental Microbiology 66:4510-4513.

Chilton MD. and Que Q. 2003. Targeted integration of T-DNA into the tobacco genome at double-strand breaks: new insights on the mechanism of T-DNA integration. *Plant Physiology* 133:956-965.

Cho Y., Qiu YL., Kuhlman P and Palmer JD. 1998. Explosive invasion of plant mitochondria by a group I intron. *Proceedings of the National Academy of Sciences, USA* 95:14244-14249.

Cho YR. and Palmer JD. 1999. Multiple acquisitions via horizontal transfer of a group I intron in the mitochondrial *cox1* gene during evolution of the Araceae family. *Molecular Biology and Evolution* 16:1155-1165.

Christie PJ., Ward JE., Winans SC. and Nester EW. 1988. The *Agrobacterium tumefaciens* *virE2* gene product is a single-stranded-DNA-binding protein that associates with T-DNA. *Journal of Bacteriology*. 170:2659-2667.

Citovsky V. and Zambryski P. 2003. Transport of nucleic acids through membrane channels: snaking through small holes. *Annual Review of Microbiology* 47: 167

Citovsky V., De Vos G. and Zambryski P. 1988. Single-stranded DNA binding protein encoded by the *virE* locus of *Agrobacterium tumefaciens*. *Science* 240:501-504.

Citovsky VC., McLean G., Greene E., Howard E., Kuldau G., et al. 1992. *Agrobacterium* plant cell interaction: induction of *vir* genes and T-DNA transfer. In *Molecular Signals in Plant-Microbe Communications*, ed. D. P. S. Verma, pp. 169-198. Boca Raton, FL: CRC

Clegg MT. 1993. Chloroplast gene sequences and the study of plant evolution. *Proceedings of the National Academy of Science USA* 90:363-367.

Clegg MT., Cummings MP. and Durbin M. 1997. The evolution of plant nuclear genes. *Proceedings of the National Academy of Science USA* 94:7791-7798.

Clifton SW., Minx P., Fauron CMR., Gibson M., Allen JO., Sun H., Thompson M., Barbazuk WB., Kanuganti S., Tayloe C., Meyer L., Wilson RK. and Newton KJ. 2004. Sequence and comparative analysis of the maize NB mitochondrial genome. *Plant Physiology* 136:3486-3503.

Collins RA. and Saville BJ. 1990. Independent transfer of mitochondrial chromosomes and plasmids during unstable vegetative fusion in *Neurospora*. *Nature* 345:177-179.

Copley SD. and Dhillon JK. 2002. Lateral gene transfer and parallel evolution in the history of glutathione biosynthesis genes. *Genome Biology* 3:0025.1-0025.16.

Daniell H, Datta R, Varma S, Gray S and Lee S-B. 1998. Containment of herbicide resistance through genetic engineering of the chloroplast genome. *Nature Biotechnology* 16:345-348.

Davis CC. and Wurdack KJ. 2004. Host-to-parasite gene transfer in flowering plants: phylogenetic evidence from malpighiales. *Science* 305:676-678.

Davis CC. William R, Anderson WR. and Wurdack KJ. 2005. Gene transfer from a parasitic flowering plant to a fern. *Proceedings of the Royal Society B: Biological Sciences* 272:2237-2242.

De Groot MJ., Bundock P., Hooykaas PJJ. and Beijersbergen AG. 1998. *Agrobacterium tumefaciens*-mediated transformation of filamentous fungi. *Nature Biotechnology* 16:839-842.

Debets F., Yang X. and Griffiths AJF. 1994. Vegetative incompatibility in *Neurospora*: its effect on horizontal transfer of mitochondrial plasmids and senescence in natural populations. *Current Genetics* 26:113-119.

Delwiche CF. and Palmer JD. 1997. The origin of plastids and their spread via secondary symbiosis. *Plant Systematics and Evolution* 11:53-86.

Diao XM., Freeling M. and Lisch D. 2006. Horizontal transfer of a plant transposon. *Plos Biology* 4:119–128.

Doolittle WF. 1998. You are what you eat: a gene transfer ratchet could account for bacterial genes in eukaryotic nuclear genomes. *Trends in Genetics* 14:307-311.

Eikbush TH. 1992. Transposing without ends – the non-LTR retrotransposable elements. *New Biology* 4:430-440.

Fagan TF, and Hastings JW. 2002. Phylogenetic analysis indicates multiple origins of chloroplast glyceraldehyde-3-phosphate dehydrogenase genes in dinoflagellates. *Molecular Biology and Evolution* 19:1203-1207.

Farrelly F. and Butow RA. 1983. Rearranged mitochondrial genes in the yeast nuclear genome. *Nature* 301:296-301.

Felsenstein J. 1974. The evolutionary advantage of recombination. *Genetics* 78:737-756.

Feng DF., Cho G. and Doolittle RF. 1997. Determining divergence times with a protein clock: Update and reevaluation. *Proceedings of the National Academy of Sciences, USA* 94:13028-13033.

Feschotte C. and Wessler SR. 2002. Mariner-like transposases are widespread and diverse in flowering plants. *Proceedings of the National Academy of Sciences, USA* 99:280-285.

Friesner J. and Britt AB. 2003. Ku80- and DNA ligase IV-deficient plants are sensitive to ionizing radiation and defective in T-DNA integration. *Plant Journal* 34:427-440.

Gantt JS., Baldauf SL., Calie PJ., Weeden NF. and Palmer JD. 1991. Transfer of rpl22 to the nucleus greatly preceded its loss from the chloroplast and involved the gain of an intron. *EMBO Journal* 10:3073-3078.

Garcia-Bustos J., Heitman J. and Hall MN. 1991. Nuclear protein localization. *Biochim. Biophys. Acta* 1071: 83-101.

Garcia-Vallve S., Romeu A. and Palau J. 2000. Horizontal gene transfer of glycosyl hydrolases of the rumen fungi. *Molecular Biology and Evolution* 17:352-361.

Geering ADW., Olszewski NE., Dahal G., Thomas JE. and Lockhart BEL. 2001. Analysis of the distribution and structure of integrated Banana streak virus DNA in a range of Musa cultivars. *Molecular Plant Pathology*. 2: 207-213.

Gheysen G., Villarroel R. and Van Montagu M. 1991. Illegitimate recombination in plants: a model for T-DNA integration. *Genes and Development* 5:287-297.

Gibbs SP. 1962. Nuclear envelope-chloroplast relationships in algae. *Journal of Cell Biology* 14:433-444.

Gibbs SP. 1981 The chloroplasts of some algal groups may have evolved from endosymbiotic eukaryotic algae *Annals of the New York Academy of Science* 361:193-208.

Goff SA., Ricke D., Lan TH., et al. (2002) A draft sequence of the rice genome (*Oryza sativa* L. ssp *japonica*). *Science* 296:92-100

Gouka RJ., Gerk C., Hooykaas PJ., Bundock P., Musters W., Verrips CT. and de Groot MJ. 1999. Transformation of *Aspergillus awamori* by *Agrobacterium tumefaciens*-mediated homologous recombination. *Nature Biotechnology* 17:598-601.

Gray MW. 1992. The endosymbiont hypothesis revisited. *International Review of Cytology* 141: 233-357.

Grierson D. and Covey SN. 1988. *Plant Molecular Biology*. Chapman & Hall, New York.

Griffiths AJF. 1995. Natural plasmids of filamentous fungi. *Microbiology Reviews* 59:673-685.

Hall C., Brachat S. and Dietrich FS. 2005. Contribution of horizontal gene transfer to the evolution of *Saccharomyces cerevisiae*. *Eukaryotic Cell* 4:1102-1115.

Hanahan D. 1983. Studies on transformation of *Escherichia coli* with plasmids. *Journal of Molecular Biology* 166:557-580.



Harper G. and Hull R. 1998. Cloning and sequence analysis of Banana streak virus DNA. *Virus Genes* 17: 271-278.

Harper G., Hull R., Lockhart B. and Olszewski N. 2002. Viral sequences integrated into plant genomes. *Annual Review of Phytopathology* 40:119-136

Harper G., Osuji JO., Heslop-Harrison JS, Hull R. 1999. Integration of banana streak badnavirus into the *Musa* genome: molecular and cytogenetic evidence. *Virology* 255: 207-213.

Hartman H. and Fedoroy A. 2002. The origin of the eukaryotic cell: A genomic investigation. *Proceedings of the National Academy of Science, USA* 99:1420-1425.

Hastings IM. 1992. Population genetic aspects of deleterious cytoplasmic genomes and their effect on the evolution of sexual reproduction. *Genetic Research* 59:215-225.

He C., Rusu AG., Poplawski AM., Irwin JAG. and Manners JM. 1998. Transfer of a supernumerary chromosome between vegetatively incompatible biotypes of the fungus *Colletotrichum gloeosporioides*. *Genetics* 150:1459-1466.

Hedges SB. 2002. The origin and evolution of model organisms. *Nature Reviews Genetics* 3:838-849.

Henze K. and Martin W. 2001. How do mitochondrial genes get into the nucleus? *Trends in Genetics* 17:383-387.

Herman L., Jacobs A., Van Montagu M. and Depicker A. 1990. Plant chromosome/marker gene fusion assay to study normal and truncated T-DNA integration events. *Molecular Genomics and Genetics* 224:248-256.

Herrmann RG. 1997. Eukaryotism, towards a new interpretation. In: *Eukaryotism and Symbiosis*. Schenk HEA., Herrmann RG., Jeon KW. and Schwemmler W. eds., Springer, Heidelberg, Germany, pp 73-118.

Hoffmann T., Golz C. and Schieder O. 1994. Foreign DNA sequences are received by a wild-type strain of *Aspergillus niger* after co-culture with transgenic higher plants. *Current Genetics* 27:70-76.

Hooykaas PJJ. and Beijersbergen AGM. 1994. The virulence system of *Agrobacterium tumefaciens*. *Annual Review of Phytopathology* 32:157-179.

Horiike T., Hamada K., Kanaya S. and Shinozawa T. 2001. Origin of eukaryotic cell nuclei by symbiosis of Archaea in Bacteria is revealed by homology-hit analysis. *Nature Cell Biology* 2:210-214.

Hotopp JCD., Clark ME., Oliveira DCSG. *et al.* (2007). Widespread lateral gene transfer from intracellular bacteria to multicellular eukaryotes. *Science* 317:1753-1756.

Huelsenbeck JP. and Ronquist F. 2001. MRBAYES: Bayesian inference of phylogenetic trees. *Bioinformatics* 17:754-755.

Hull R. 1992. Down the tube. Tubules extending from protoplasts infected with cowpea mosaic virus may reveal how some viruses move from cell to cell in infected plants. *Current Biology* 2: 224-226

Hull R., Harper G. and Lockhart B. 2000. Viral sequences integrated into plant genomes. *Trends in Plant Science* 5:362-365.

Intrieri MC. and Buiatti M. 2001. The horizontal transfer of *Agrobacterium rhizogenes* genes and the evolution of the genus *Nicotiana*. *Molecular Phylogenetics and Evolution* 20:100-110.

Jakowitsch J., Mette MF., van der Winden J., Matzke MA. and Matske AJM. 1999. Integrated pararetroviral sequences define a unique class of dispersed repetitive DNA in plants. *Proceedings of the National Academy of Science, USA* 96: 13241-13246.

Jeremy N., Timmis NJ., Ayliffe MA., Huang CY. and Martin W. 2004. Endosymbiotic gene transfer: Organelle genomes forge eukaryotic chromosomes. *Nature Reviews Genetics* 5:123-135.

Jouanin L. 1984. Restriction map of an Agropine-type RI-Plasmid and its homologies with TI-Plasmids. *Plasmid* 12: 91-102.

Joyce PBM. and Gray MW. 1989. Chloroplast-like transfer RNA genes expressed in wheat mitochondria. *Nucleic Acids research* 17:5461-5476.

Kanno A., Kanzaki H. and Kameya T. 1997. Detailed analyses of chloroplast and mitochondrial DNAs from the hybrid plant generated by asymmetric protoplast fusion between radish and cabbage. *Plant Cell Reports* 16:479-484.

Kempken F. 1995. Horizontal transfer of a mitochondrial plasmid. *Molecular Genomics and Genetics* 248:89-94.

Kempken F., Hermanns J. and Osiewacz HD. 1992. Evolution of linear plasmids. *Journal of Molecular Evolution* 35:502-513.

Kenton A., Khashoggi A., Parokonny A., Bennett MD. and Lichtenstein C. 1995. Chromosomal location of endogenous geminivirus-related DNA sequences in *Nicotiana tabacum* L. *Chromosome Research* 3:346-350.

Kidwell MG. and Lisch DR. 2001. Perspective: transposable elements, parasitic DNA and genome evolution. *Evolution* 55:1-24.

Kim N-S., Park N-I., Kim S-H., Kim S-T., Han S-S. and Kang K-Y. 2000. Isolation of TC/AG repeat microsatellite sequences for fingerprinting rice blast fungus and their possible horizontal transfer to plant species. *Molecules and Cells* 10:127-134.

Kimura M. 1980. A simple method for estimating evolutionary rate of base substitutions through comparative studies of nucleotide sequences. *Journal of Molecular Evolution* 16:111-120.

Klasson L. and Andersson SGE. 2004. Evolution of minimal-gene-sets in host-dependent bacteria. *Trends in Microbiology* 12:37-43.

Knoll AH. 1992. The early evolution of eukaryotes: a geological perspective. *Science* 256:622-627.

Koncz C., Martini N., Mayerhofer R., Koncz-Kalman Z., Korber H., Redei GP. and Schell J. 1989. High-frequency TDNA-mediated gene tagging in plants. *Proceedings of the National Academy of Science, USA* 86:8467-8471.

Kondo N., Nikoh N., Ijichi N., Shimada M. and Fukatsu T. 2002. Genome fragment of *Wolbachia* endosymbiont transferred to X chromosome of host insect. *Proceedings of the National Academy of Sciences, USA* 99:14280-14285.

Korbel JO., Snel B., Huynen MA. and Bork P. 2002. SHOT: a web server for the construction of genome phylogenies. *Trends in Genetics* 18:158-162.

Koulintchenko M., Konstantinov Y. and Dietrich A. 2003. Plant mitochondria actively import DNA via the permeability transition pore complex. *EMBO Journal* 22:1245-1254.

Kunii M., Kanda M., Nagano H, Uyeda I., Kishima Y. and Sano Y. 2004. Reconstruction of putative DNA virus from endogenous rice tungro bacilliform virus-like sequences in the rice genome: implications for integration and evolution. *BMC Genomics* 5:80-94.

Kunik T., Tzfira T., Kapulnik Y., Gafni Y., Dingwall C. and Citovsky V. 2001. Genetic transformation of HeLa cells by *Agrobacterium*. *Proceedings of the National Academy of Science, USA* 98:1871-1876.

Kurland CG., Collins LJ. and Penny D. 2006. Genomics and the irreducible nature of eukaryote cells. *Science* 312:1011-1014.

Lake JA. and Rivera MC. 2004. Deriving the genomic tree of life in the presence of horizontal gene transfer: Conditioned Reconstruction. *Molecular Biology and Evolution* 21:681-690.

Lockhart BE., Menke J., Dahal G. and Olszewski NE. 2000. Characterization and genomic analysis of tobacco vein clearing virus, a plant pararetrovirus that is transmitted vertically and related to sequences integrated in the host genome. *Journal of General Virology* 81: 1579-1585.

Lockhart BEL. 1986. Purification and serology of a bacilliform virus associated with banana streak disease. *Phytopathology* 76: 995-999.

Lopez-Garcia P. and Moreira D. 1999. Metabolic symbiosis at the origin of eukaryotes. *Trends in Biochemical Science* 24:88-93.

Lynch M. 1996. Mutation Accumulation in Transfer RNAs: Molecular Evidence for Muller's Ratchet in Mitochondrial Genomes *Molecular Biology and Evolution* 13:209-220.

Margulis L. 1981. *Symbiosis in Cell Evolution*, 1<sup>st</sup> Edition. Freeman, New York.

Marienfeld J., Unseld M. and Brennicke A. 1999. The mitochondrial genome of *Arabidopsis* is composed of both native and immigrant information. *Trends in Plant Science* 4:495-502.

Marienfeld JR., Unseld M., Brandt P. and Brennicke A. 1997. Viral nucleic acid sequence transfer between fungi and plants. *Trends in Genetics* 13:260-261.

Martin W. and Hermann RG. 1998. Gene transfer from organelles to the nucleus: how much, what happens and why? *Plant Physiology* 118:9-17.

Masel AM., Irwin JAG. and Manners JM. 1993. DNA addition or deletion is associated with a major karyotype polymorphism in the fungal phytopathogen *Colletotrichum gloeosporioides*. *Molecular Genomics and Genetics* 237:73-80.

Matsuo M., Ito Y., Yamauchi R. and Obokata J. 2005. The Rice Nuclear Genome Continuously Integrates, Shuffles, and Eliminates the Chloroplast Genome to Cause Chloroplast–Nuclear DNA Flux. *The Plant Cell* 17:665-675.

McFadden GI. 2001. Chloroplast origin and integration. *Plant Physiology* 125:50-53.

Menaud B., Marechal-Drouard C., Sakamoto W., Dietrich A. and Wintz H. 1998. A single gene of chloroplast origin codes for mitochondrial and chloroplastic methionyl-tRNA synthetase in *Arabidopsis thaliana*. *Proceedings of the National Academy of Science USA* 95:11014-11019.

Mohapatra T., Kirti PB., Kumar VD., Prakash S. and Chopra VL. 1998. Random chloroplast segregation and mitochondrial genome recombination in somatic: hybrid plants of *Diplotaxis catholica*+*Brassica juncea*. *Plant Cell Reports* 17:814-818.

Mower JP., Stefanovic S., Young GJ. and Palmer JD. 2004. Gene transfer from parasitic to host plants. *Nature* 432:165-166.

Mysore KS., Bassuner B., Deng XB., Darbinian NS., Motchoulski A., Ream W. and Gelvin SB. 1998. Role of the *Agrobacterium tumefaciens* VirD2 protein in T-DNA transfer and integration. *Molecular Plant-Microbe Interactions* 11:668-683.

Mysore KS., Nam J. and Gelvin SB. 2000. An Arabidopsis histone H2A mutant is deficient in *Agrobacterium* T-DNA integration *Proceedings of the National Academy of Science, USA*, 97:948-953.

Nagano H., Oka A., Kishima Y. and Sano Y. 2000. DNA sequences homologous to rice tungro bacilliform virus (RTBV) present in the rice genome. *Rice Genetic Newsletter* 17:103-105.

Ndowora T., Dahal G., LaFleur D., Harper G., Hull R., Olszewski NE. and Lockhart B. 1999. Evidence That Badnavirus Infection in *Musa* can originate from integrated Pararetroviral Sequences. *Virology* 255: 214-220.

Nickrent DL., Blarer A., Qiu YL., Vidal-Russell R. and Anderson FE. 2004. Phylogenetic inference in Rafflesiales: the influence of rate heterogeneity and horizontal gene transfer. *BMC Evolutionary Biology* 4:40.

Nierzwicki-Bauer SA., Curtis SE. and Haselkorn R. 1984. Co-transcription of genes encoding the small and large subunits of ribulose-1,5-bisphosphate carboxylase in the cyanobacterium *Anabaena* 7120. *Proceedings of the National Academy of Science USA* 81:5961-5965.

Nosek J., Novotna M., Hlavatovicova Z., Ussery DW., Fajkus J. and Tomaska L. 2004. Complete DNA sequence of the linear mitochondrial genome of the pathogenic yeast *Candida parapsilosis*. *Molecular Genetics and Genomics* 272: 173-180.

Olsen GJ. and Woese CR. 1996. Lessons from an Archaeal genome: what are we learning from *Methanococcus jannaschii*? Trends in Genetics 12:377-379.

Olsen GJ., Woese CR. and Overbeek R. 1994. The Winds of (Evolutionary) Change: Breathing Life into Microbiology. Journal of Bacteriology 176:1-6.

Olsen VM. 1999. When less is more: gene loss as an engine of evolutionary change. American Journal of Human Genetics 64:18-23.

Oparka KJ. and Roberts AG. 2001. Plasmodesmata. A not so open-and-shut case. Plant Physiology 125: 123-126.

Park J-H., Choi GJ., Jang KS., Lim HK., Kim HT., Cho KY. and Kim J-C. 2005. Antifungal activity against plant pathogenic fungi of chaetoviridins isolated from *Chaetomium globosum*. FEMS Microbiology Letters 252:309-313.

Patience C., Wilkinson DA. and Weiss RA. 1997. Our retroviral heritage. Trends in Genetics 13:116-120.

Patient RK. and Allan J. 1989. Active chromatin. Current Opinion in Cell Biology 1:454-459.

Piers KL., Heath JD., Liang X., Stephens KM. and Nester EW. 1996. *Agrobacterium tumefaciens*-mediated transformation of yeast. Proceedings of the National Academy of Science, USA 93:1613-1618.

Possingham JV. 1980. Plastid replication and development in the life-cycle of higher-plants. Annual Review of Plant Physiology and Plant Molecular Biology 31:113-129.

Race H., Hermann RG. and Martin W. 1999. Why have organelles retained genomes? Trends in Genetics 15:364-370.

Rho HS., Kang S. and Lee YH. 2001. *Agrobacterium tumefaciens*-mediated transformation of plant pathogenic fungus, *Magnaporthe grisea*. Molecules and Cells 12:407-411

Ribeiro S. and Golding GB. 1998. The mosaic nature of the eukaryotic nucleus. *Molecular Biology and Evolution* 15:779-788.

Ribichich KF., Georg RC. and Gomes SL. 2006. Comparative EST analysis provides insights into the basal aquatic fungus *Blastocladiella emersonii*. *BMC Genomics* 7:177.

Rice DW. and Palmer JD. 2006. An exceptional horizontal gene transfer in plastids: gene replacement by a distant bacterial paralog and evidence that haptophyte and cryptophyte plastids are sisters. *BMC Biology* 4:31.

Richert-Pöggeler KR. and Shepard RJ. 1997. Petunia Vein-Clearing Virus: A Plant Pararetrovirus with the Core Sequences for an Integrase Function. *Virology* 236:137-146.

Rivera MC. and Lake JA. 2004. The ring of life provides evidence for a genome fusion origin of eukaryotes. *Nature* 431:152-155.

Rivera MC., Jain R., Moore JE. and Lake JA. 1998. Genomic evidence for two functionally distinct gene classes. *Proceedings of the National Academy of Sciences, USA* 95:6239-6244.

Roberts AG. And Oparka KJ. 2003. Plasmodesmata and the control of symplastic transport *Plant, Cell and Environment* 26:103-124.

Rosewich UL. and Kistler HC. 2000. Role of horizontal gene transfer in the evolution of fungi. *Annual Review of Phytopathology* 38:325-363.

Roth DB. And Wilson JH. 1988. Illegitimate recombination in mammalian cells. In *Genetic recombination* (ed. R. Kucherlapati and G.R. Smith), American Society for Microbiology, Washington, pp. 621-653.

Rubinoff D., Cameron S. and Will K. 2006. Are plant DNA barcodes a search for the Holy Grail? *Trends in Ecology and Evolution* 21:1-2.



Santa Cruz S., Roberts AG., Prior DAM., Chapman S. and Oparka KJ. 1998. Cell-to-cell and phloem-mediated transport of potato virus X: the role of virions. *Plant Cell* 10:495– 510.

Sawasaki Y., Inomata K. and Yoshida K. 1998. Trans-kingdom conjugation between *Agrobacterium tumefaciens* and *Saccharomyces cerevisiae*, a bacterium and a yeast. *Plant and Cell Physiology* 37:103-106.

Schönenberger J., Anderberg AA. and Sytsma KJ. 2005. Molecular phylogenetics and patterns of floral evolution in the Ericales. *International Journal of Plant Sciences* 166:265-288.

Schröder ARW., Shinn P., Chen H., Berry C., Ecker JR. and Bushman F. 2002. HIV-1 Integration in the Human Genome Favors Active Genes and Local Hotspots. *Cell* 110, pp 521-529.

Scott NS. and Timmis JN. 1984. Homologies between nuclear and plastid DNA in spinach. *Theoretical and Applied Genetics* 67:279-288.

Screen SE. and St. Leger RJ. 2000. Cloning, expression and substrate specificity of a fungal chymotrypsin - evidence for lateral gene transfer from an actinomycete bacterium. *Journal of Biological Chemistry* 275:6689-6694.

Sheahan MB., McCurdy DW. and Rose RJ. 2005. Mitochondria as a connected population: ensuring continuity of the mitochondrial genome during plant cell dedifferentiation through massive mitochondrial fusion. *The Plant Journal* 44:744-755.

Sheng J. and Citovsky V. 1996. *Agrobacterium*-plant cell interaction: have virulence proteins, will travel. *Plant Cell* 8:1699-1710.

Sherker AH. and Marion PL. 1991. Hepadnaviruses and hepatocellular carcinoma. *Annual Review of Microbiology* 45:475-508

Snel B., Bork P. and Huynen MA. 2002. Genomes in flux: The evolution of Archaeal and Proteobacterial gene content. *Genome Research* 12:17-25.

Stachel SE. and Nester EW. 1986. The genetic and transcriptional organization of the vir region of the A6 Ti plasmid of *Agrobacterium*. *EMBO J.* 5:1445-1454.

Staginnus C. and Richert-Pöggeler KR. 2006. Endogenous pararetroviruses: two-faced travelers in the plant genome. *Trends in Plant Science* 11:485-491.

Stegemann S., Hartmann S., Ruf S. and Bock R. 2003. High-frequency gene transfer from the chloroplast genome to the nucleus. *Proceedings of the National Academy of Science USA* 100:8828-8833.

Storms MMH., Kormelink R., Peters D., van Lent JWM. and Goldbach RW. 1995. The nonstructural NSm protein of tomato spotted wilt virus induces tubular structures in plant and insect cells. *Virology* 214: 485-493.

Sugiyama Y., Watase Y., Nagase M., Makita N., Yagura S., Hirai A. and Sugiura M. 2005. The complete nucleotide sequence and multipartite organization of the tobacco mitochondrial genome: comparative analysis of mitochondrial genomes in higher plants. *Molecular Genetics and Genomics* 272:603-615.

Sun C-W. and Callis J. 1993. Recent Stable Insertion of Mitochondrial DNA into an *Arabidopsis* Polyubiquitin Gene by Nonhomologous Recombination. *Plant Cell* 5:97-107.

Svab Z., Hajdukiewicz P. and Maliga PAL. 1990. Stable transformation of plastids in higher plants. *Proceedings of the National Academy of Science USA* 87:8526-8530.

Tamura K., Dudley J., Nei M. and Kumar S. 2007. MEGA4: Molecular Evolutionary Genetics Analysis (MEGA) software version 4.0. *Molecular Biology and Evolution* 10.1093/molbev/msm092.

Tanne E. and Sela I. 2005. Occurrence of a DNA sequence of a non-retro RNA virus in a host plant genome and its expression: evidence for recombination between viral and host RNAs. *Virology* 332:614-622.

Taylor JW. 1986. Fungal evolutionary biology and mitochondrial DNA. *Experimental Mycology* 10:259-269.

Thorsness PE. And Fox TD. 1990. Escape of DNA from Mitochondria to the Nucleus in *Saccharomyces cerevisiae*. *Nature* 346:376-379.

Thorsness PE. and Weber ER. 1996. Escape and migration of nucleic acids between chloroplasts, mitochondria, and the nucleus. *International Review of Cytology* 165:207-234.

Timmis NJ., Ayliff MA., Huang CY. and Martin W. 2004. Endosymbiotic gene transfer: Organelle genomes forge eukaryotic chromosomes. *Nature Reviews Genetics* 5:123-135.

Tinland B., Schoumacher F., Gloeckler V., Bravo-Angel AM. and Hohn B. 1995. The *Agrobacterium tumefaciens* virulence D2 protein is responsible for precise integration of T-DNA into the plant genome. *EMBO Journal* 14:3585-3595.

Tzfira T., Frankmen L., Vaidya M. and Citovsky V. 2003. Site-specific integration of *Agrobacterium* T-DNA via double-stranded intermediates. *Plant Physiology* 133:1011-1023.

Unsold M., Marienfeld JR., Brandt P. and Brennicke A. 1997. The mitochondrial genome of *Arabidopsis thaliana* contains 57 genes in 366 924 nucleotides. *Nature Genetics* 15:57-61.

Van der Vyver C., Vorster BJ., Kunert KJ. And Cullis CA. 2007. Nuclear located chloroplast fragments act as mutation buffers. Submitted to *Annals of Botany*.

Vaughn JC., Mason MT., Sper-Whitis GL., Kuhlman P. and Palmer JD. 1995. Fungal origin by horizontal transfer of a plant mitochondrial group I intron in the chimeric *coxI* gene of *Peperomia*. *Journal of Molecular Evolution* 41:563-572.

Veronico P., Jones J., Di Vito M. and De Giorgi C. 2001. Horizontal transfer of a bacterial gene involved in polyglutamate biosynthesis to the plant-parasitic nematode *Meloidogyne artiellia*. *FEBS Letters* 508:470-474.

Watts RA., Hunt PW., Hvitved AN., Hargrove MS., Peacock WJ. and Dennis ES. 2001. A hemoglobin from plants homologous to truncated hemoglobins of microorganisms. *Proceedings of the National Academy of Sciences, USA* 98:10119-10124.

White FF., Taylor BH., Huffman GA., Gordon MP. and Nester EW. 1985. Molecular and genetic analysis of the transferred DNA regions of the root-inducing plasmid of *Agrobacterium rhizogenes*. *Journal of Bacteriology* 164:33-44.

Wikström N., Savolainen V. and Chase MW. 2001. Evolution of the angiosperms: calibrating the family tree. *Proceedings of the Royal Society B: Biological Sciences* 268:2211-2220.

Wischmann C. and Schuster W. 1995. Transfer of *rps10* from the mitochondrion to the nucleus in *Arabidopsis thaliana*: evidence for RNA-mediated transfer and exon shuffling at the integration site. *FEBS Letters* 374:152-156.

Woese CR. 1998 The universal ancestor. *Proceedings of the National Academy of Sciences, USA* 95:6854-6859.

Woese CR. 2000. Interpreting the universal phylogenetic tree. *Proceedings of the National Academy of Sciences, USA* 97:8392-8396.

Woese CR. 2002. On the evolution of cells. *Proceedings of the National Academy of Sciences, USA* 99:8742-8747.

Woese CR., Kandler O. and Wheelis ML. 1990. Towards a natural system of organisms: Proposal for the domains Archaea, Bacteria, and Eucarya. *Proceedings of the National Academy of Sciences, USA* 87:4576-4579.

Wolf YI. and Koonin EV. 2001. Origin of an animal mitochondrial DNA polymerase subunit via lineage-specific acquisition of a glycyl-tRNA synthetase from bacteria of the Thermus-Deinococcus group. *Trends in Genetics* 17:431-433.

Wolfe KH., Li WH. and Sharp PM. 1987. Rates of Nucleotide Substitution Vary Greatly among Plant Mitochondrial, Chloroplast, and Nuclear DNAs. *Proceedings of the National Academy of Science USA* 84:9054-9058.

Woloszynska M., Bocer T., Mackiewicz P. and Janska H. 2004. A fragment of chloroplast DNA was transferred horizontally, probably from non-eudicots, to mitochondrial genome of *Phaseolus*. *Plant Molecular Biology* 56:811-820.

Won H. and Renner SS. 2003. Horizontal gene transfer from flowering plants to *Gnetum*. *Proceedings of the National Academy of Sciences, USA* 100:10824-10829.

Yang X. and Griffiths AJF. 1993. Plasmid diversity in senescent and non-senescent strains of *Neurospora*. *Molecular Genomics and Genetics* 237:177-186.

Yu H-S. and Russell SD. 1993 Populations of plastids and mitochondria during male reproductive cell maturation in *Nicotiana tabacum* L.: A cytological basis for occasional biparental inheritance. *Planta* 193:115-122

Yuan Q., Hill J., Hsiao J., Moffat K., Ouyang S., Cheng Z., Jiang J. and Buell CR. 2002. Genome sequencing of a 239-kb region of rice chromosome 10L reveals a high frequency of gene duplication and a large chloroplast DNA insertion. *Molecular Genetics and Genomics* 267:713-720.

Zambryski P. 1988. Basic processes underlying *Agrobacterium* mediated DNA transfer to plant cells. *Annual Review Genetics* 22:1-30.

Zambryski PC. 1992. Chronicles from the *Agrobacterium*-plant cell DNA transfer story. *Annual Review of Plant Physiology and Plant Molecular Biology* 43:465-490.

Zardoya R., Ding X., Kitagawa Y. and Chrispeels MJ. 2002. Origin of plant glycerol transporters by horizontal gene transfer and functional recruitment. *Proceedings of the National Academy of Science, USA* 99:14893-14896.

Zhang Z., Green BR. and Cavalier-Smith T. 1999. Single gene circles in dinoflagellate chloroplast genomes. *Nature* 400:155-159.

Zhu Q. and Ge S. 2005. Phylogenetic relationships among A-genome species of the genus *Oryza* revealed by intron sequences of four nuclear genes. *New Phytologist* 167:249-265.

Ziemienowicz A., Tinland B., Bryant J., Gloeckler V. and Hohn B. 2000. Plant enzymes but not *Agrobacterium* VirD2 mediate T-DNA ligation in vitro. *Molecular and Cell Biology* 20:6317-6322.

## Appendix

### Description of table headings:

**Start** and **End** provides reference points on the respective genomes for the start and end of each aligned fragment.

**Ori** shows the orientation of the alignment (5'-3' as + or 3'-5' as -) relative to its orientation in its native genome

**Name** gives the chromosome number of each of the rice chromosomes

**Stats** provide the specific statistics associated with each alignment as follows:

**Score:** The bit score value is derived from the raw alignment score in which the statistical properties of the scoring system used have been taken into account. Because bit scores have been normalized with respect to the scoring system, they can be used to compare alignment scores from different searches.

**E-val:** Expectation value. The number of different alignments with scores equivalent to or better than S that are expected to occur in a database search by chance. The lower the E-value, the more significant the score.

**%ID:** Percentage identity, the extent to which two sequences are identical.

**Length:** Length of the alignment in base pairs.

**Table A-1** Chloroplast DNA homologies in the rice nuclear genome

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
96210	96425	+	1	525553	525762	+	179	8.30E-94	96	215
49008	49091	+	1	2521305	2521393	+	61	1.50E-44	92	89
49097	49224	+	1	2521393	2521514	+	57	1.50E-44	86	129
21846	21953	-	1	3561919	3562026	+	100	1.60E-48	98	108
6536	6934	+	1	5002377	5002775	+	379	0	99	399
42532	42965	+	1	5002776	5003204	+	390	0	97	434
45519	45574	+	1	5003204	5003259	+	56	0	100	56
45613	45754	+	1	5003298	5003439	+	130	0	98	142
57885	58006	-	1	5180980	5181100	+	117	4.90E-109	99	121
57756	57875	-	1	5181111	5181229	+	107	4.90E-109	97	119
57885	58006	-	1	5182800	5182920	+	117	4.90E-109	99	121
57756	57875	-	1	5182931	5183049	+	107	4.90E-109	97	119
91192	91345	-	1	5726538	5726690	+	145	1.50E-73	99	153
82949	83035	+	1	5732527	5732612	+	70	7.30E-29	95	86
19358	19387	+	1	7189094	7189123	+	30	0.0016	100	30
22311	22367	-	1	7226377	7226433	+	53	7.40E-16	98	57
94325	94399	-	1	7226581	7226654	+	66	1.80E-26	97	74
12512	13987	+	1	7758510	7759987	+	1470	0	100	1478
13997	15200	+	1	7759996	7761198	+	1196	0	100	1204
19231	19341	+	1	8307163	8307274	+	45	5.20E-11	85	113
6407	6487	-	1	8474004	8474085	+	54	5.90E-18	91	82
43490	43683	+	1	9517040	9517231	+	160	6.50E-138	95	196
43700	43829	+	1	9517249	9517378	+	118	6.50E-138	98	130
56309	56410	+	1	11345224	11345325	+	56	1.60E-20	88	104
5683	5857	+	1	11419187	11419359	+	115	6.70E-66	91	175
5877	5937	+	1	11419362	11419421	+	41	6.70E-66	92	61
40083	40141	-	1	11424887	11424945	+	35	1.40E-05	90	59
89199	89625	-	1	12345480	12345904	+	326	2.10E-181	94	426
125496	125922	+	1	12345480	12345904	+	326	2.10E-177	94	426
126638	126654	+	1	12379680	12379695	+	16	2.10E-177	100	16



Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
11817	11882	+	1	12842604	12842669	+	62	5.70E-21	98	66
81712	81770	+	1	12927880	12927937	+	54	7.10E-190	98	58
133351	133409	-	1	12927880	12927937	+	54	3.70E-188	98	58
81761	82163	+	1	12929119	12929514	+	306	7.10E-190	94	402
132958	133360	-	1	12929119	12929514	+	306	3.70E-188	94	402
31790	31842	+	1	13407835	13407887	+	49	8.80E-13	98	53
51627	53330	+	1	14119934	14121638	+	1546	0	98	1706
53424	53871	+	1	14121733	14122179	+	397	0	97	449
53859	53993	+	1	14122182	14122315	+	134	0	100	134
54010	54169	+	1	14122333	14122491	+	151	0	99	159
67855	68195	-	1	14122489	14122826	+	289	2.40E-159	96	341
38650	38731	-	1	14158933	14159014	+	39	3.10E-09	87	83
90814	91043	+	1	14724876	14725105	+	143	2.30E-72	90	231
22540	22826	+	1	15109868	15110154	+	263	6.40E-139	98	287
44985	45028	-	1	15792161	15792204	+	36	5.20E-08	95	44
36305	36423	-	1	16273246	16273364	+	65	1.50E-23	88	121
35827	35899	-	1	16678584	16678656	+	69	8.50E-25	99	73
95687	95863	-	1	17022813	17022988	+	168	3.00E-87	99	176
60691	61075	+	1	17321637	17322025	+	365	1.20E-204	98	389
79196	79509	+	1	17735430	17735741	+	277	5.40E-210	97	313
79567	79699	+	1	17735800	17735932	+	117	5.40E-210	97	133
39462	39556	+	1	18041405	18041497	+	30	0.0028	83	98
69142	69338	-	1	18315759	18315954	+	122	7.70E-60	90	198
4125	4200	+	1	18445151	18445228	+	51	5.50E-60	91	79
4257	4313	+	1	18445269	18445326	+	46	1.70E-56	95	58
4355	4435	+	1	18445365	18445446	+	54	1.70E-56	91	82
4156	4200	+	1	18460337	18460381	+	37	7.00E-52	96	45
4203	4316	+	1	18460379	18460492	+	63	5.50E-60	89	115
4355	4435	+	1	18460529	18460609	+	49	5.50E-60	90	81
24788	25264	-	1	18664084	18664560	+	465	1.40E-257	99	477
19839	19908	-	1	18806633	18806702	+	66	1.90E-24	99	70
129406	129421	-	1	18928121	18928135	+	15	0	100	15

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
124362	124378	+	1	18941120	18941135	+	16	0.00021	100	16
122359	122392	+	1	18952057	18952089	+	25	1.40E-09	94	33
100861	100876	+	1	18953988	18954002	+	15	3.80E-35	100	15
114300	114315	+	1	18971096	18971110	+	15	3.80E-35	100	15
133575	133590	-	1	19000471	19000485	+	15	0	100	15
85781	87335	+	1	19004491	19006043	+	1499	0	99	1555
127786	129340	-	1	19004491	19006043	+	1499	0	99	1555
128784	128814	+	1	19005016	19005045	+	30	1.40E-09	100	30
87329	87682	+	1	19009465	19009815	+	333	0	99	353
127439	127792	-	1	19009465	19009815	+	333	0	99	353
118117	118192	-	1	19011938	19012013	+	22	0	82	78
65773	66154	+	1	19014684	19015064	+	369	5.00E-207	99	381
99204	99290	-	1	19016193	19016278	+	86	2.20E-38	100	86
115831	115917	+	1	19016193	19016278	+	86	3.80E-35	100	86
121995	122013	-	1	19016201	19016218	+	18	0	100	18
109286	109301	-	1	19020803	19020817	+	15	0	100	15
109286	109301	-	1	19021451	19021465	+	15	0	100	15
100663	100678	-	1	19042940	19042954	+	15	0	100	15
103688	103703	-	1	19046636	19046650	+	15	0	100	15
88675	88804	-	1	19072483	19072611	+	81	2.10E-35	91	129
49675	49722	+	1	19301664	19301711	+	37	1.50E-06	94	49
63343	63443	+	1	19322527	19322625	+	92	3.10E-179	98	100
63434	63502	+	1	19323722	19323789	+	68	3.10E-179	100	68
63515	63761	+	1	19323804	19324048	+	201	3.10E-179	95	249
63780	64449	+	1	19324067	19324735	+	617	0	98	669
17208	17257	-	1	19442501	19442548	+	30	6.50E-15	90	50
17120	17198	-	1	19442550	19442623	+	39	6.50E-15	87	79
94523	94632	-	1	19789806	19789914	+	77	5.00E-33	93	109
56718	57010	+	1	20766806	20767098	+	273	0	98	293
57099	57875	+	1	20767167	20767940	+	736	0	99	776
57883	58265	+	1	20767949	20768330	+	346	0	98	382
58314	58674	+	1	20768380	20768741	+	342	0	99	362

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
58689	59130	+	1	20768761	20769201	+	425	0	99	441
59161	59410	+	1	20769234	20769482	+	233	0	98	249
59468	59548	+	1	20769541	20769618	+	68	0	96	80
59580	60031	+	1	20769619	20770068	+	431	0	99	451
60039	60639	+	1	20770076	20770674	+	556	0	98	600
60680	60828	+	1	20770716	20770863	+	148	0	100	148
60847	61075	+	1	20770869	20771100	+	208	0	97	232
61162	61319	+	1	20771187	20771343	+	153	0	99	157
61312	61984	+	1	20772415	20773085	+	632	0	99	672
1974	2176	-	1	22814887	22815087	+	104	3.00E-45	88	204
3553	3829	-	1	23599715	23599988	+	185	3.30E-95	91	281
24666	24714	-	1	23754948	23754996	+	41	1.30E-08	96	49
88677	88837	-	1	24018229	24018384	+	104	1.20E-87	91	160
88498	88662	-	1	24018382	24018548	+	84	1.20E-87	88	168
53591	53687	-	1	24482114	24482210	+	81	2.10E-35	96	97
22209	22423	-	1	24586006	24586223	+	37	1.90E-06	79	225
23130	23366	-	1	24730249	24730480	+	142	1.10E-68	90	238
115509	115525	+	1	25125613	25125628	+	16	1.70E-113	100	16
106988	107004	+	1	25135827	25135842	+	16	1.30E-111	100	16
83625	83931	-	1	25167332	25167640	+	215	2.90E-115	92	311
131190	131496	+	1	25167332	25167640	+	215	1.70E-113	92	311
50186	50267	-	1	26594624	26594704	+	57	4.10E-21	93	81
65222	65358	+	1	27573564	27573699	+	108	1.70E-51	95	136
93522	93632	-	1	28444635	28444745	+	80	8.10E-35	93	112
48525	48563	-	1	28575868	28575906	+	31	0.00048	95	39
82620	82958	+	1	28741733	28742071	+	319	3.10E-177	99	339
132163	132501	-	1	28741733	28742071	+	319	1.90E-172	99	339
55866	55957	-	1	28741789	28741880	+	76	2.00E-32	96	92
108419	108435	-	1	28751141	28751156	+	16	2.50E-171	100	16
109312	109819	+	1	28857412	28857918	+	479	2.70E-266	99	507
76238	76519	-	1	28857919	28858199	+	261	7.10E-159	98	281
121285	121304	+	1	28858879	28858898	+	16	2.70E-266	95	20

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
23457	23496	+	1	29484695	29484734	+	40	3.00E-09	100	40
49097	49170	-	1	29649160	29649229	+	35	2.30E-06	87	75
54489	54826	-	1	30408357	30408693	+	182	1.40E-95	88	338
43757	43866	+	1	30752874	30752981	+	58	4.60E-174	88	110
43909	44046	+	1	30753007	30753144	+	107	4.60E-174	94	139
43976	44028	+	1	30753149	30753202	+	38	9.90E-134	93	54
44021	44289	+	1	30753313	30753576	+	189	4.60E-174	93	269
77337	77526	-	1	31309861	31310049	+	103	1.60E-48	88	191
13639	13675	-	1	32289319	32289356	+	30	0.0036	95	38
23733	23767	-	1	32537633	32537667	+	31	0.0007	97	35
38396	38482	-	1	32730866	32730953	+	84	2.90E-35	99	88
123788	123805	-	1	33018677	33018693	+	17	5.30E-109	100	17
109572	109591	+	1	33023312	33023330	+	19	3.20E-93	100	19
98918	98981	+	1	33077890	33077952	+	59	2.60E-22	98	63
116140	116203	-	1	33077890	33077952	+	59	2.90E-19	98	63
67009	67109	+	1	33077952	33078051	+	88	5.20E-152	97	100
92040	92159	+	1	33078135	33078253	+	103	5.20E-152	97	119
122962	123081	-	1	33078135	33078253	+	103	5.30E-109	97	119
95701	95811	-	1	33078253	33078362	+	98	8.90E-95	97	110
119310	119420	+	1	33078253	33078362	+	98	3.20E-93	97	110
90684	90802	-	1	33078362	33078479	+	102	8.90E-95	97	118
124319	124437	+	1	33078362	33078479	+	102	3.20E-93	97	118
92696	92836	+	1	33078816	33078954	+	124	5.20E-152	97	140
122285	122425	-	1	33078816	33078954	+	124	5.30E-109	97	140
98545	98630	+	1	33359897	33359981	+	81	2.00E-35	99	85
13082	13422	+	1	33484586	33484926	+	341	0	100	341
15980	16301	-	1	33484964	33485285	+	322	0	100	322
15911	15940	-	1	33485325	33485354	+	30	0	100	30
15500	15902	-	1	33485363	33485765	+	403	0	100	403
15422	15491	-	1	33485774	33485843	+	70	0	100	70
15263	15418	-	1	33488995	33489150	+	156	0	100	156
14949	15219	-	1	33489194	33489463	+	263	0	99	271

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
13997	14909	-	1	33489503	33490413	+	893	0	99	913
13668	13987	-	1	33490424	33490744	+	317	0	100	321
21967	25531	+	1	33492335	33495899	+	3549	0	100	3565
44892	45431	+	1	33496051	33496593	+	295	0	88	547
47041	47170	+	1	33496831	33496960	+	90	0	92	130
47379	47635	+	1	33497242	33497497	+	206	0	95	258
47658	47823	+	1	33497579	33497741	+	119	0	93	167
47824	49055	+	1	33497752	33498988	+	1050	0	96	1238
48136	49091	+	1	33498069	33499029	+	833	0	97	961
49097	49224	+	1	33499029	33499150	+	77	0	90	129
36762	41364	+	1	33502201	33506803	+	4545	0	100	4605
41374	41491	+	1	33506813	33506930	+	118	0	100	118
41535	42468	+	1	33506974	33507907	+	920	0	100	936
42477	43683	+	1	33507916	33509114	+	1157	0	99	1209
43700	43898	+	1	33509131	33509329	+	195	0	100	199
43909	44314	+	1	33509341	33509744	+	398	0	100	406
30468	30738	+	1	33528293	33528563	+	227	0	96	271
29541	30299	-	1	33534404	33535162	+	755	0	100	759
29149	29503	-	1	33535200	33535554	+	355	0	100	355
27483	29137	-	1	33535567	33537221	+	1640	0	100	1656
49511	49583	-	1	33539456	33539528	+	73	0	100	73
49286	49502	-	1	33539537	33539753	+	217	0	100	217
46504	49273	-	1	33539764	33542536	+	2749	0	100	2773
46286	46495	-	1	33542545	33542754	+	210	0	100	210
46201	46276	-	1	33542764	33542839	+	76	0	100	76
45968	46165	-	1	33542873	33543065	+	178	0	97	198
45613	45946	-	1	33543087	33543420	+	330	0	100	334
45314	45552	-	1	33543456	33543694	+	239	0	100	239
8101	8203	+	1	33546519	33546621	+	103	0	100	103
8212	8513	+	1	33546630	33546931	+	302	0	100	302
8561	8607	+	1	33546979	33547025	+	43	0	98	47
8623	11432	+	1	33547041	33549855	+	2795	0	100	2815

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
11487	13987	+	1	33549910	33552407	+	2451	0	99	2503
36195	36238	+	1	33551207	33551250	+	36	0	95	44
13997	14346	+	1	33552417	33552764	+	338	0	99	350
43009	43044	+	1	33559890	33559925	+	32	0	97	36
16160	16195	-	1	33567267	33567302	+	36	0	100	36
94601	94767	-	1	33824661	33824826	+	166	0	100	166
120354	120520	+	1	33824661	33824826	+	166	0	100	166
121590	121607	+	1	33824800	33824816	+	17	0	100	17
71468	71749	+	1	33824834	33825114	+	281	0	100	281
71784	74265	+	1	33825150	33827634	+	2444	0	100	2488
74282	74547	+	1	33827652	33827916	+	261	0	100	265
74585	75875	+	1	33827955	33829244	+	1282	0	100	1290
75987	76222	+	1	33829356	33829590	+	231	0	100	235
76238	76511	+	1	33829606	33829878	+	273	0	100	273
76597	77696	+	1	33829964	33831063	+	1084	0	100	1100
129478	129495	-	1	33830294	33830310	+	17	0	100	17
77724	78372	+	1	33831092	33831738	+	637	0	100	649
118587	118615	+	1	33831736	33831763	+	28	0	100	28
119712	119735	-	1	33833112	33833134	+	19	0	96	23
119666	119686	-	1	33833160	33833180	+	17	0	95	21
119407	119454	-	1	33833546	33833592	+	35	0	94	47
120354	120374	-	1	33836123	33836142	+	20	0	100	20
126422	126438	+	1	33837256	33837271	+	16	0	100	16
93471	94212	+	1	33837965	33838705	+	741	0	100	741
120909	121650	-	1	33837965	33838705	+	741	0	100	741
120493	120510	-	1	33838008	33838024	+	17	0	100	17
93382	93487	-	1	33838701	33838805	+	101	0	99	105
121634	121739	+	1	33838701	33838805	+	101	0	99	105
93007	93374	-	1	33838814	33839180	+	355	0	99	367
121747	122114	+	1	33838814	33839180	+	355	0	99	367
115839	115857	-	1	33839062	33839079	+	18	0	100	18
122028	122047	-	1	33839095	33839113	+	19	0	100	19

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
92673	92998	-	1	33839194	33839518	+	325	0	100	325
122123	122448	+	1	33839194	33839518	+	325	0	100	325
120912	120931	-	1	33844478	33844496	+	19	0	100	19
115878	115894	+	1	33848162	33848177	+	16	0	100	16
111208	111226	+	1	33855621	33855638	+	18	0	100	18
94774	96546	+	1	33858780	33860551	+	1772	0	100	1772
118575	120347	-	1	33858780	33860551	+	1772	0	100	1772
55891	55969	-	1	33860589	33860666	+	78	0	100	78
82676	82742	+	1	33860601	33860666	+	62	0	98	66
132379	132445	-	1	33860601	33860666	+	62	0	98	66
54738	55539	-	1	33860717	33861517	+	797	0	100	801
51115	52639	+	1	33866500	33868023	+	1520	0	100	1524
84794	87093	-	1	33868069	33870367	+	2284	0	100	2300
128028	130327	+	1	33868069	33870367	+	2284	0	100	2300
128784	128814	-	1	33868825	33868854	+	30	0	100	30
129822	129873	-	1	33869863	33869913	+	19	0	84	55
84793	84845	-	1	33870267	33870318	+	48	0	98	52
130276	130328	+	1	33870267	33870318	+	48	0	98	52
130103	130119	-	1	33870405	33870420	+	16	0	100	16
107037	107232	+	1	33870460	33870654	+	195	0	100	195
119712	119735	-	1	33871744	33871766	+	19	0	96	23
119407	119454	-	1	33872178	33872224	+	35	0	94	47
53117	53330	+	1	33880027	33880239	+	209	0	100	213
53424	53871	+	1	33880333	33880779	+	417	0	98	449
53859	53993	+	1	33880782	33880915	+	134	0	100	134
54010	54668	+	1	33880933	33881590	+	658	0	100	658
60055	60639	+	1	33884444	33885027	+	584	0	100	584
60680	61075	+	1	33885069	33885468	+	376	0	99	400
61162	62242	+	1	33885556	33886634	+	1068	0	100	1080
120912	120931	+	1	33888772	33888790	+	19	0	100	19
87852	88349	-	1	33890880	33891377	+	494	0	100	498
126772	127269	+	1	33890880	33891377	+	494	0	100	498

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
85928	87815	-	1	33891415	33893296	+	1845	0	99	1889
127306	129193	+	1	33891415	33893296	+	1845	0	99	1889
128784	128814	-	1	33892888	33892917	+	30	0	100	30
52773	53109	+	1	33893370	33893705	+	336	0	100	336
126422	126438	-	1	33899927	33899942	+	16	0	100	16
55828	57010	+	1	33899948	33901131	+	1156	0	99	1184
132180	132219	+	1	33899948	33899985	+	27	0	92	39
82676	82767	-	1	33899986	33900076	+	87	0	99	91
132354	132445	+	1	33899986	33900076	+	87	0	99	91
57099	57653	+	1	33901210	33901762	+	542	0	99	554
57648	57875	+	1	33904937	33905163	+	227	0	100	227
57883	58265	+	1	33905172	33905553	+	378	0	100	382
58314	58674	+	1	33905603	33905964	+	354	0	99	362
58689	59081	+	1	33905980	33906372	+	385	0	99	393
88615	89655	+	1	33906372	33907410	+	1020	0	100	1040
125466	126506	-	1	33906372	33907410	+	1020	0	100	1040
89702	90135	+	1	33907458	33907891	+	426	0	100	434
124986	125419	-	1	33907458	33907891	+	426	0	100	434
86603	87815	+	1	33907909	33909115	+	1185	0	99	1213
127306	128518	-	1	33907909	33909115	+	1185	0	99	1213
87851	87977	+	1	33909152	33909277	+	126	0	100	126
127144	127270	-	1	33909152	33909277	+	126	0	100	126
125519	125542	-	1	33910616	33910638	+	19	0	96	23
117147	117164	+	1	33913611	33913627	+	17	1.10E-152	100	17
117204	117275	+	1	33913672	33913742	+	39	1.10E-152	89	71
117305	117452	+	1	33913773	33913919	+	50	1.10E-152	83	154
117833	117927	+	1	33914286	33914379	+	50	1.10E-152	88	94
97453	98367	+	1	33914493	33915406	+	903	0	100	915
116754	117668	-	1	33914493	33915406	+	903	0	100	915
98383	99592	+	1	33915423	33916634	+	1192	0	100	1212
115529	116738	-	1	33915423	33916634	+	1192	0	100	1212
121995	122013	+	1	33916307	33916324	+	18	1.10E-152	100	18



Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
52750	52997	-	1	34038281	34038526	+	227	2.10E-122	98	247
2133	2293	-	1	34107535	34107695	+	129	3.90E-60	95	161
40558	40638	-	1	34351432	34351512	+	81	6.20E-31	100	81
35461	35566	+	1	34352704	34352809	+	86	1.60E-34	95	106
37142	37293	-	1	34588936	34589094	+	84	2.50E-35	88	160
52264	52402	-	1	34698144	34698281	+	134	5.40E-67	99	138
80657	80749	+	1	34698382	34698473	+	88	1.40E-39	99	92
91512	91579	-	1	34698889	34698955	+	63	1.10E-24	99	67
100540	100912	+	1	35791859	35792230	+	364	6.20E-200	99	372
114302	114581	-	1	35791859	35792137	+	271	5.20E-152	99	279
100618	100670	-	1	35791937	35791988	+	44	7.80E-11	96	52
114451	114503	+	1	35791937	35791988	+	44	2.10E-11	96	52
114209	114240	-	1	35792200	35792230	+	31	5.20E-152	100	31
111103	111119	-	1	35802942	35802957	+	16	5.20E-152	100	16
108718	108734	-	1	35803528	35803543	+	16	5.20E-152	100	16
125493	125509	+	1	35854786	35854801	+	16	6.20E-200	100	16
57556	57660	+	1	35907449	35907552	+	92	8.80E-98	97	104
57731	57813	+	1	35907550	35907631	+	78	5.10E-77	99	82
57782	57847	+	1	35907633	35907697	+	65	2.60E-69	100	65
57731	57848	+	1	35907729	35907845	+	113	8.80E-98	99	117
7183	7420	-	1	36736060	36736297	+	234	6.20E-124	100	238
7119	7214	-	1	36736297	36736392	+	76	2.40E-30	95	96
45839	45879	+	1	37230687	37230727	+	29	0.0011	93	41
87922	88203	+	1	37346806	37347090	+	167	1.20E-86	90	287
88127	88212	+	1	37347091	37347173	+	65	7.00E-26	94	85
24757	24787	+	1	37703686	37703716	+	31	0.00026	100	31
52778	52899	+	1	38167315	38167434	+	66	2.60E-40	89	122
65684	65764	-	1	38349283	38349362	+	49	2.40E-16	90	81
61083	62502	-	1	38596514	38597931	+	1415	0	100	1419
60680	61075	-	1	38597940	38598334	+	395	0	100	395
60039	60651	-	1	38598364	38598975	+	612	0	100	612
59161	60031	-	1	38598984	38599851	+	862	0	100	870

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
58938	59130	-	1	38599883	38600074	+	192	0	100	192
21254	21506	+	1	39093615	39093867	+	245	8.00E-189	99	253
49030	49091	+	1	39095008	39095074	+	43	1.70E-142	91	67
44934	45018	+	1	39095080	39095163	+	54	5.60E-149	91	86
35055	35237	-	1	39097197	39097379	+	179	8.50E-148	99	183
35350	35481	+	1	39097590	39097721	+	120	8.00E-189	98	132
37254	37330	-	1	39101503	39101579	+	77	4.90E-89	100	77
34411	34528	-	1	39102379	39102496	+	118	8.50E-148	100	118
91307	91404	-	1	39293454	39293550	+	57	4.10E-21	90	97
10626	10685	-	1	39303574	39303633	+	29	0.00065	87	61
103905	103925	-	1	39406157	39406176	+	16	5.80E-236	95	20
105157	105175	-	1	39438775	39438792	+	18	3.30E-274	100	18
85065	85156	+	1	39443181	39443271	+	91	9.30E-66	100	91
129965	130056	-	1	39443181	39443271	+	91	0	100	91
52016	52214	-	1	39445747	39445944	+	194	9.60E-103	99	198
55819	55904	-	1	39447874	39447958	+	85	8.50E-38	100	85
132354	132392	-	1	39447874	39447911	+	38	0	100	38
132171	132219	-	1	39447912	39447958	+	36	0	94	48
59757	59856	+	1	39448499	39448597	+	99	1.70E-70	100	99
54654	54953	+	1	39448764	39449062	+	279	2.20E-177	98	299
91597	91657	+	1	39450172	39450231	+	60	2.20E-177	100	60
123464	123524	-	1	39450172	39450231	+	60	0	100	60
103904	103988	-	1	39451842	39451925	+	84	0	100	84
103472	103896	-	1	39451934	39452358	+	421	0	100	425
85733	85908	-	1	39912329	39912503	+	135	1.40E-67	94	175
36617	36747	+	1	40330387	40330516	+	68	1.40E-26	88	132
35064	35165	+	1	40924507	40924607	+	74	4.50E-35	93	102
49184	49224	+	1	41479818	41479858	+	33	3.10E-05	95	41
26309	26369	-	1	41861482	41861542	+	57	1.70E-26	98	61
3094	3146	-	1	41874240	41874293	+	30	1.70E-26	89	54
52240	52591	-	1	42048687	42049037	+	351	2.70E-196	100	351
20352	20438	+	1	42137042	42137128	+	71	1.90E-27	95	87

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
39187	39615	+	1	42648642	42649070	+	393	1.90E-211	98	429
23245	23286	-	1	42708152	42708193	+	30	2.00E-06	93	42
1900	2482	-	1	43195709	43196290	+	449	1.50E-250	94	589
92115	92700	-	2	807670	808254	+	541	0	98	585
122421	123006	+	2	807670	808254	+	541	0	98	585
132956	132976	-	2	810967	810987	+	17	0	95	21
90815	92120	-	2	811408	812712	+	1185	0	98	1305
123001	124306	+	2	811408	812712	+	1185	0	98	1305
89669	90808	-	2	812727	813864	+	1059	0	98	1143
124313	125418	+	2	812727	813830	+	1029	0	98	1109
89142	89658	-	2	813875	814387	+	472	0	98	516
125463	125979	+	2	813875	814387	+	472	0	98	516
96830	98367	+	2	814398	815938	+	1410	0	98	1542
116754	118291	-	2	814398	815938	+	1410	0	98	1542
98383	100002	+	2	815956	817575	+	1542	0	99	1622
114302	116738	-	2	815956	818393	+	2332	0	99	2440
100002	100872	+	2	817576	818445	+	835	0	99	871
114451	114503	+	2	818193	818244	+	44	6.70E-11	96	52
100618	100670	-	2	818193	818244	+	44	0	96	52
100870	101001	+	2	818435	818565	+	119	0	98	131
114120	114240	-	2	818446	818565	+	108	0	98	120
105735	105751	-	2	822100	822115	+	16	0	100	16
115509	115525	+	2	837295	837310	+	16	0	100	16
43788	43827	+	2	912959	912998	+	32	0.00024	95	40
15651	15896	+	2	1025239	1025482	+	154	7.20E-79	91	246
88924	89001	-	2	2430726	2430802	+	77	5.00E-33	100	77
13888	13958	+	2	2490393	2490464	+	64	1.70E-23	97	72
88951	89141	+	2	2490507	2490694	+	166	1.10E-100	97	190
111574	111801	-	2	2944012	2944241	+	198	7.50E-222	97	230
111336	111564	-	2	2944249	2944476	+	216	7.50E-222	99	228
101822	101840	-	2	2960541	2960558	+	18	7.50E-222	100	18

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
48054	48130	-	2	3097087	3097167	+	61	3.90E-22	94	81
20057	20114	+	2	3449847	3449904	+	39	9.40E-09	92	59
51852	51905	+	2	4706185	4706237	+	53	9.90E-19	100	53
24377	24469	-	2	5815627	5815722	+	69	4.10E-26	93	97
30936	31077	-	2	6171945	6172086	+	135	3.70E-64	99	143
32792	33065	+	2	6648926	6649199	+	246	8.50E-127	97	274
18760	18820	+	2	6680240	6680299	+	41	1.10E-43	92	61
18811	18923	+	2	6680301	6680413	+	78	1.10E-43	92	114
7513	7550	+	2	7759551	7759588	+	34	1.30E-06	97	38
12555	12831	+	2	7858580	7858853	+	241	7.20E-126	97	277
36195	36238	+	2	7858810	7858853	+	36	1.10E-07	95	44
49922	49982	+	2	8144701	8144761	+	46	2.40E-14	94	62
31878	32006	+	2	8414079	8414207	+	29	7.30E-08	80	133
52727	52801	-	2	9082463	9082536	+	58	1.00E-21	95	74
79220	79505	+	2	9415245	9415530	+	216	7.40E-116	94	288
34219	34629	+	2	9463408	9463821	+	314	3.20E-169	94	414
96561	96656	+	2	9726302	9726396	+	83	1.30E-36	97	95
64154	64975	+	2	10310944	10311762	+	484	4.7e-313	90	832
65010	65164	+	2	10311782	10311934	+	83	4.7e-313	88	159
33180	33255	+	2	10337585	10337661	+	36	1.20E-06	86	80
5370	5411	-	2	10864500	10864541	+	38	1.30E-06	98	42
92108	92178	+	2	11195300	11195369	+	62	4.60E-80	97	70
92294	92439	+	2	11195880	11196024	+	113	4.60E-80	94	145
9703	9811	+	2	11196650	11196758	+	93	3.00E-81	96	109
22761	22878	+	2	11196831	11196948	+	86	3.00E-81	93	118
47539	47635	+	2	12183572	12183668	+	73	1.20E-30	94	97
13452	13581	+	2	12184872	12185002	+	100	2.00E-44	94	132
111574	112893	-	2	13297302	13298623	+	1286	0	99	1322
113071	113087	-	2	13298333	13298348	+	16	0	100	16
110200	111564	-	2	13298631	13300000	+	1283	0	98	1371
110121	110194	-	2	13300000	13300072	+	65	0	97	73
21554	21658	+	2	13301518	13301622	+	73	1.00E-52	92	105

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
28038	28102	+	2	13403456	13403520	+	61	1.00E-52	98	65
29057	29101	-	2	13403540	13403585	+	30	7.10E-05	91	46
58946	59130	+	2	13540571	13540753	+	172	2.00E-177	98	184
59161	59344	+	2	13540784	13540966	+	167	2.00E-177	98	183
43009	43044	+	2	14188838	14188873	+	32	0	97	36
48096	48939	+	2	14202863	14203706	+	836	0	100	844
27388	28622	-	2	14203718	14204952	+	1228	0	100	1236
27257	27349	-	2	14204991	14205083	+	89	0	99	93
27117	27248	-	2	14205092	14205223	+	132	0	100	132
26602	27108	-	2	14205232	14205738	+	507	0	100	507
22488	22766	+	2	14210381	14210659	+	267	0	99	279
19789	20614	+	2	14210659	14211484	+	818	0	100	826
20624	21291	+	2	14211494	14212161	+	664	0	100	668
26501	27106	+	2	14212171	14212776	+	606	0	100	606
27117	27248	+	2	14212787	14212918	+	132	0	100	132
27257	27341	+	2	14212927	14213011	+	85	0	100	85
27387	29137	+	2	14213057	14214805	+	1712	0	99	1752
29149	29503	+	2	14214816	14215170	+	351	0	100	355
29541	30629	+	2	14215208	14216296	+	1085	0	100	1089
20624	25379	-	2	14216292	14221047	+	4728	0	100	4756
18642	20614	-	2	14221057	14223029	+	1949	0	100	1973
17380	18625	-	2	14223045	14224290	+	1238	0	100	1246
17118	17331	-	2	14224345	14224558	+	210	0	100	214
17001	17043	-	2	14224633	14224675	+	43	0	100	43
16679	16968	-	2	14224679	14224968	+	290	0	100	290
16880	16927	+	2	14224720	14224767	+	40	8.20E-16	96	48
15980	16670	-	2	14224977	14225667	+	679	0	100	691
15911	15940	-	2	14225707	14225736	+	30	0	100	30
15500	15902	-	2	14225745	14226147	+	399	0	100	403
15263	15491	-	2	14226156	14226384	+	229	0	100	229
14949	15219	-	2	14226428	14226697	+	267	0	100	271
13997	14909	-	2	14226737	14227647	+	897	0	100	913

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
11505	13987	-	2	14227657	14230141	+	2445	0	100	2485
36195	36238	-	2	14228815	14228858	+	36	0	95	44
8623	11436	-	2	14230211	14233025	+	2791	0	100	2815
8561	8607	-	2	14233041	14233087	+	43	0	98	47
8212	8516	-	2	14233132	14233436	+	305	0	100	305
8067	8203	-	2	14233445	14233581	+	137	0	100	137
7592	8058	-	2	14233590	14234056	+	459	0	100	467
44496	44524	+	2	14233791	14233819	+	29	0	100	29
108753	110120	-	2	14233804	14235170	+	1347	0	100	1367
7513	7582	-	2	14234066	14234135	+	70	0	100	70
6890	7482	-	2	14234166	14234758	+	593	0	100	593
86620	87815	+	2	14235165	14236354	+	1164	0	99	1196
127306	128501	-	2	14235165	14236354	+	1164	0	99	1196
87851	89655	+	2	14236391	14238193	+	1756	0	99	1804
125466	127270	-	2	14236391	14238193	+	1756	0	99	1804
89702	92998	+	2	14238240	14241537	+	3235	0	100	3299
122123	125419	-	2	14238240	14241537	+	3235	0	100	3299
93007	93374	+	2	14241546	14241912	+	363	0	100	367
121747	122114	-	2	14241546	14241912	+	363	0	100	367
115839	115857	+	2	14241647	14241664	+	18	0	100	18
93382	95184	+	2	14241924	14243724	+	1774	0	100	1802
119937	121739	-	2	14241924	14243724	+	1774	0	100	1802
86620	87295	-	2	14243722	14244396	+	675	0	100	675
127826	128501	+	2	14243722	14244396	+	675	0	100	675
108753	111564	+	2	14244391	14247207	+	2757	0	99	2817
111573	113486	+	2	14247216	14249129	+	1894	0	100	1914
113502	113762	+	2	14249146	14249405	+	260	0	100	260
101359	101393	-	2	14249372	14249405	+	34	0	100	34
84217	84408	+	2	14249404	14249594	+	187	0	99	191
130713	130904	-	2	14249404	14249594	+	187	0	99	191
84416	86241	+	2	14249603	14251427	+	1802	0	100	1826
128880	130705	-	2	14249603	14251427	+	1802	0	100	1826

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
129822	129873	+	2	14250435	14250485	+	19	0	84	55
91503	91823	+	2	14251430	14251749	+	316	0	100	320
123298	123618	-	2	14251430	14251749	+	316	0	100	320
83264	83373	+	2	14251776	14251884	+	109	4.00E-68	100	109
131748	131857	-	2	14251776	14251884	+	109	1.20E-46	100	109
61084	62137	-	2	14254866	14255918	+	1035	0	100	1055
60680	61075	-	2	14255927	14256321	+	387	0	99	395
60039	60651	-	2	14256351	14256962	+	608	0	100	612
59161	60031	-	2	14256971	14257838	+	854	0	100	870
58693	59130	-	2	14257870	14258306	+	437	0	100	437
57883	58674	-	2	14258326	14259118	+	773	0	99	793
57612	57875	-	2	14259127	14259389	+	263	0	100	263
126422	126438	+	2	14276325	14276340	+	16	0	100	16
51360	51617	-	2	14938974	14939229	+	205	3.00E-126	95	257
51286	51342	-	2	14939230	14939285	+	48	3.00E-126	96	56
37331	37518	-	2	15444308	15444495	+	134	1.20E-67	93	190
90827	90919	-	2	15756913	15757004	+	84	3.40E-37	98	92
133	303	+	2	15901774	15901943	+	139	9.40E-66	95	171
83505	83654	+	2	15950960	15951107	+	121	3.00E-59	95	149
9728	9789	-	2	16412719	16412785	+	35	3.10E-06	88	67
376	433	-	2	17996493	17996550	+	46	1.60E-14	95	58
20482	20523	+	2	17996764	17996804	+	38	1.00E-09	98	42
19151	19235	+	2	18561262	18561346	+	81	1.00E-31	99	85
81535	81647	+	2	18610761	18610873	+	109	4.20E-52	99	113
86158	86221	-	2	18762116	18762178	+	55	6.40E-20	97	63
45188	45270	+	2	19359786	19359868	+	63	1.90E-21	94	83
36638	36749	-	2	19359876	19359987	+	104	2.80E-161	98	112
36616	36678	-	2	19359987	19360049	+	63	2.70E-136	100	63
36541	36607	-	2	19360060	19360126	+	67	2.80E-161	100	67
36481	36531	-	2	19360136	19360186	+	51	2.80E-161	100	51
10168	10280	+	2	19360271	19360383	+	109	7.50E-57	99	113
44338	44384	+	2	19360504	19360551	+	32	7.50E-57	92	48

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
26003	26144	-	2	19361080	19361221	+	130	2.80E-161	98	142
95258	95400	-	2	19408658	19408799	+	142	4.20E-103	100	142
74477	74549	-	2	19409428	19409499	+	72	4.20E-103	100	72
54731	54798	+	2	19409879	19409945	+	67	1.00E-68	100	67
98087	98184	+	2	19410240	19410336	+	89	1.00E-68	98	97
93554	93891	+	2	20018538	20018874	+	243	6.00E-132	93	339
121230	121567	-	2	20018538	20018874	+	243	4.30E-126	93	339
82018	82143	+	2	20104613	20104733	+	77	5.00E-33	90	125
24833	24935	-	2	20800834	20800936	+	91	3.10E-39	97	103
77303	77378	+	2	20849779	20849853	+	59	2.60E-22	95	75
5443	5476	-	2	20870425	20870458	+	30	0.00088	97	34
34816	35055	+	2	21792977	21793217	+	177	1.40E-246	93	241
35062	35422	+	2	21793237	21793597	+	286	1.40E-246	95	362
21485	21540	+	2	22250879	22250934	+	40	1.10E-08	93	56
39598	39670	-	2	22307345	22307415	+	37	7.60E-14	88	73
110801	111127	-	2	22317190	22317515	+	318	2.10E-170	99	326
33275	33331	+	2	22804392	22804443	+	33	7.00E-36	89	57
33399	33503	+	2	22804470	22804572	+	73	7.00E-36	92	105
83749	83882	+	2	22853267	22853399	+	73	1.20E-30	89	133
36110	36158	-	2	23972317	23972365	+	33	2.70E-05	92	49
33215	33364	+	2	24783729	24783881	+	137	3.00E-280	97	153
33399	33577	+	2	24783916	24784094	+	175	3.00E-280	99	179
33618	33861	+	2	24784136	24784379	+	220	3.00E-280	98	244
77725	78413	-	2	24891555	24892240	+	610	0	97	690
77500	77697	-	2	24892268	24892464	+	165	0	96	197
76070	76188	+	2	26155603	26155721	+	91	2.30E-41	94	119
6846	7028	+	2	26896715	26896897	+	179	8.60E-88	99	183
24875	24946	+	2	27441692	27441762	+	56	5.10E-19	94	72
102373	102853	-	2	27604729	27605208	+	468	5.30E-261	99	480
80733	80793	+	2	27667594	27667653	+	52	3.90E-18	97	60
22124	22156	-	2	28025169	28025201	+	29	3.20E-07	97	33
33952	34021	+	2	28429351	28429420	+	42	3.50E-82	90	70



Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
34194	34449	+	2	28429560	28429815	+	140	3.50E-82	88	260
7766	8017	-	2	29019182	29019432	+	232	3.80E-121	98	252
44496	44524	+	2	29019341	29019369	+	29	0.00036	100	29
43120	43245	+	2	29317383	29317508	+	95	4.00E-41	94	127
63872	63946	-	2	29935149	29935223	+	47	3.70E-15	91	75
1808	1980	+	2	32501863	32502036	+	154	1.40E-76	97	174
7825	7977	-	2	32639447	32639599	+	153	2.20E-73	100	153
15814	15900	+	2	33330216	33330302	+	83	8.90E-71	99	87
15980	16049	+	2	33330382	33330451	+	70	8.90E-71	100	70
33470	33551	+	2	33534505	33534586	+	54	4.00E-16	91	82
14443	14532	+	2	35130193	35130282	+	66	1.20E-211	93	90
14535	14637	+	2	35130274	35130376	+	76	1.20E-211	93	104
14643	15004	+	2	35130375	35130741	+	276	1.20E-211	94	368
47517	47957	-	2	35784625	35785065	+	293	4.40E-159	91	445
47517	47580	-	2	35785075	35785138	+	44	1.10E-11	92	64
2947	3096	+	3	81353	81502	+	99	3.40E-42	91	151
94738	94928	+	3	685792	685981	+	170	1.90E-88	97	190
39350	39392	+	3	1094624	1094666	+	35	2.90E-06	95	43
14324	14385	-	3	2311481	2311540	+	42	2.80E-09	92	62
18563	18625	-	3	2577276	2577338	-	47	1.60E-41	94	63
18650	18728	-	3	2577365	2577443	-	67	1.60E-41	96	79
19305	19352	-	3	3028197	3028244	-	44	1.60E-10	98	48
25432	25515	+	3	3425670	3425752	-	68	1.80E-24	95	84
97585	97743	+	3	4315440	4315596	-	94	3.70E-43	90	158
33400	33441	-	3	4842555	4842596	+	30	1.20E-19	93	42
33144	33235	-	3	4842764	4842856	+	38	1.20E-19	85	94
54921	55204	+	3	4991086	4991368	-	259	1.60E-156	98	283
81779	81896	-	3	5166875	5166991	-	82	5.20E-36	92	118
35598	35663	+	3	5626070	5626135	+	50	1.50E-12	94	66
35540	35582	-	3	5701299	5701341	-	35	0.0001	95	43
67008	67377	+	3	5730542	5730913	-	269	1.90E-147	93	373

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
28941	29007	-	3	5795598	5795664	+	63	1.70E-22	99	67
66270	66431	+	3	6128249	6128408	+	145	3.30E-88	98	161
18642	18686	-	3	6632804	6632848	+	41	4.40E-53	98	45
18552	18625	-	3	6632866	6632939	+	63	4.40E-53	96	75
14535	14592	-	3	6750924	6750980	+	46	4.40E-53	95	58
133297	133319	-	3	7557875	7557896	+	22	4.20E-209	100	22
81804	82193	+	3	7557897	7558285	+	373	2.10E-209	99	389
132928	133317	-	3	7557897	7558285	+	373	4.20E-209	99	389
98421	98920	+	3	7935200	7935697	+	477	2.20E-271	99	501
116201	116700	-	3	7935200	7935697	+	477	9.40E-264	99	501
15625	15672	-	3	7940371	7940418	+	44	1.50E-11	98	48
37067	37121	+	3	7940414	7940468	+	47	5.70E-13	96	55
100550	100566	-	3	7954100	7954115	+	16	9.40E-264	100	16
27393	27473	+	3	7987008	7987088	+	43	3.10E-11	88	83
47709	47752	-	3	8431937	8431979	+	32	1.30E-05	93	44
22717	22794	-	3	8893880	8893956	+	47	2.20E-13	90	79
54249	54360	+	3	10113399	10113509	+	103	1.60E-48	98	111
23568	23620	+	3	10119828	10119880	+	53	2.90E-16	100	53
17971	18078	+	3	10581614	10581721	+	52	1.10E-14	87	108
59933	60031	-	3	10882101	10882198	-	94	2.40E-123	99	98
60039	60209	-	3	10882206	10882373	-	154	2.40E-123	98	170
18985	19352	+	3	10887531	10887898	-	352	2.50E-189	99	368
86623	86792	-	3	10995621	10995787	+	81	2.10E-35	87	169
103769	103794	+	3	11516778	11516802	+	18	1.30E-220	92	26
96201	96601	-	3	11518626	11519025	+	400	1.70E-225	100	400
118520	118920	+	3	11518626	11519025	+	400	1.30E-220	100	400
28120	28160	+	3	11863782	11863822	-	37	5.60E-06	98	41
18024	18080	+	3	12859172	12859229	-	30	3.60E-12	88	58
123752	123812	-	3	13620215	13620274	+	32	3.20E-56	88	60
64246	64368	-	3	13620632	13620753	+	94	3.70E-43	94	122
96815	96922	+	3	13623739	13623846	+	104	4.00E-49	99	108
118199	118306	-	3	13623739	13623846	+	104	3.20E-56	99	108

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
80935	81139	+	3	13624253	13624456	+	196	6.10E-104	99	204
133982	134186	-	3	13624253	13624456	+	196	1.90E-100	99	204
53426	53573	+	3	13625786	13625932	+	115	2.70E-69	95	147
20236	20434	+	3	13637442	13637640	+	191	4.10E-96	99	199
132216	132232	-	3	13689626	13689641	+	16	2.90E-100	100	16
106333	106349	-	3	13721589	13721604	+	16	1.90E-100	100	16
131083	131099	-	3	13730664	13730679	+	16	2.90E-100	100	16
117341	117357	-	3	13738319	13738334	+	16	1.90E-100	100	16
107363	107379	-	3	13887749	13887764	+	16	1.60E-206	100	16
107028	107043	+	3	13903730	13903744	+	15	0	100	15
110589	110604	+	3	13916889	13916903	+	15	0	100	15
8832	8975	-	3	13927645	13927795	+	83	1.40E-35	89	151
8797	8909	-	3	13927718	13927836	+	67	3.70E-26	89	119
103607	103622	-	3	13930980	13930994	+	15	1.60E-206	100	15
105757	105772	-	3	13931210	13931224	+	15	1.60E-206	100	15
106896	106911	+	3	13933080	13933094	+	15	0	100	15
101519	101534	-	3	13950397	13950411	+	15	1.60E-206	100	15
112803	112818	-	3	13958316	13958330	+	15	9.30E-210	100	15
116391	116406	-	3	13963063	13963077	+	15	9.30E-210	100	15
104716	104731	+	3	13963095	13963109	+	15	0	100	15
116391	116406	+	3	13963171	13963185	+	15	1.10E-113	100	15
113371	113386	+	3	13971220	13971234	+	15	0	100	15
103640	103655	+	3	13981840	13981854	+	15	0	100	15
116391	116406	+	3	14009206	14009220	+	15	1.60E-112	100	15
122845	122860	-	3	14010319	14010333	+	15	9.30E-210	100	15
114731	115438	+	3	14011403	14012111	+	685	0	99	709
100002	100390	-	3	14011403	14011792	+	378	9.30E-210	99	390
99683	100002	-	3	14011793	14012111	+	307	0	99	319
98383	99672	-	3	14012110	14013399	+	1251	0	99	1291
115449	116738	+	3	14012110	14013399	+	1251	0	99	1291
98141	98367	-	3	14013416	14013641	+	222	0	100	226
116754	116980	+	3	14013416	14013641	+	222	0	100	226

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
4652	4713	+	3	14263164	14263225	+	34	2.20E-06	89	62
46986	47214	+	3	14857541	14857767	+	198	1.40E-102	97	230
71112	71371	-	3	16161833	16162095	-	200	1.10E-119	94	264
56536	56712	-	3	16379897	16380068	+	128	2.00E-63	93	176
80912	81072	+	3	17479056	17479215	+	109	3.40E-65	92	161
98056	98240	-	3	17527679	17527862	+	84	3.40E-37	86	184
33618	33672	+	3	17574622	17574676	-	39	1.10E-164	93	55
33489	33576	+	3	17574722	17574809	-	72	1.10E-164	95	88
33399	33476	+	3	17574808	17574885	-	58	1.10E-164	94	78
33072	33356	+	3	17574925	17575206	-	187	1.10E-164	91	291
21520	21681	+	3	18108906	18109067	-	146	6.80E-70	98	162
47455	47839	+	3	18565283	18565666	-	344	1.80E-189	97	388
123400	123417	+	3	19863220	19863236	-	17	6.10E-253	100	17
108536	108552	+	3	19865908	19865923	-	16	6.10E-253	100	16
112245	112732	-	3	19909145	19909631	-	479	1.00E-272	100	487
69758	69950	+	3	19909629	19909821	-	189	9.10E-100	99	193
27117	27248	+	3	19912977	19913108	-	128	0	99	132
26985	27108	+	3	19913117	19913240	-	116	0	98	124
26193	26988	+	3	19913225	19914017	-	741	0	98	797
105571	106042	+	3	19930641	19931111	-	457	6.10E-253	99	473
105762	105794	-	3	19930889	19930920	-	32	2.30E-06	100	32
58077	58265	+	3	20343390	20343577	+	172	2.60E-161	98	188
58314	58454	+	3	20343627	20343766	+	140	2.60E-161	100	140
84729	84813	+	3	20938413	20938496	+	52	3.90E-18	90	84
19176	19240	+	3	21389623	21389687	+	37	1.60E-41	89	65
19269	19352	+	3	21389688	21389770	+	76	1.60E-41	98	84
12605	12660	-	3	23321904	23321959	+	36	1.80E-06	91	56
92127	92246	-	3	23613477	23613595	-	68	1.10E-42	89	120
30132	30179	+	3	23931960	23932007	+	40	3.60E-08	96	48
30144	30179	+	3	23932050	23932085	+	32	0.00066	97	36
48526	48928	+	3	24487446	24487841	-	295	1.50E-160	93	403
4979	5212	-	3	24555722	24555956	-	231	4.10E-121	100	235

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
76238	76511	+	3	24703566	24703838	+	257	0	99	273
76598	77384	+	3	24703924	24704709	+	755	0	99	787
78277	78413	-	3	24704754	24704889	+	128	2.00E-63	99	136
77382	77696	+	3	24704888	24705201	+	302	0	99	314
77724	78271	+	3	24705231	24705776	+	492	0	97	548
111620	111635	-	3	25150169	25150183	+	15	0	100	15
103936	103951	+	3	25152925	25152939	+	15	0.00053	100	15
116391	116406	-	3	25167407	25167421	+	15	0	100	15
129976	129993	-	3	25178651	25178667	+	17	0	100	17
104755	104770	-	3	25198388	25198402	+	15	0	100	15
106397	106502	-	3	25200272	25200376	+	105	0	100	105
106134	106389	-	3	25200385	25200639	+	243	0	99	255
105446	106144	-	3	25200638	25201333	+	652	0	98	700
105762	105794	+	3	25200987	25201018	+	32	0.00053	100	32
104191	105428	-	3	25201334	25202576	+	1187	0	99	1243
109988	110003	+	3	25201827	25201841	+	15	0.00053	100	15
114241	114256	+	3	25202480	25202494	+	15	0.00053	100	15
100865	100880	-	3	25202480	25202494	+	15	0	100	15
103904	104131	-	3	25202637	25202861	+	215	0	99	227
103196	103896	-	3	25202870	25203572	+	671	0	99	703
103056	103188	-	3	25203581	25203712	+	116	0	97	132
102748	103047	-	3	25203730	25204029	+	288	0	99	300
102748	102885	-	3	25204042	25204178	+	129	0	99	137
123825	123840	+	3	25223144	25223158	+	15	0.0016	100	15
103391	103406	-	3	25229135	25229149	+	15	0	100	15
130055	130070	+	3	25283346	25283360	+	15	0.0016	100	15
121163	121179	+	3	25283368	25283383	+	16	0.00053	100	16
129893	129908	+	3	25293359	25293373	+	15	0.00053	100	15
61944	62363	+	3	25755329	25755747	-	419	8.10E-237	100	419
2409	2465	+	3	25757635	25757691	-	38	1.60E-09	91	58
103745	103761	-	3	25945892	25945907	-	16	1.60E-107	100	16
73542	73603	-	3	25961613	25961673	-	61	5.40E-159	100	61

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
82425	82509	-	3	25961756	25961839	-	80	5.40E-159	99	84
132612	132696	+	3	25961756	25961839	-	80	2.20E-143	99	84
117915	117976	-	3	25961839	25961900	-	46	1.80E-55	94	62
93016	93126	-	3	25961898	25962007	-	82	2.30E-97	94	110
121995	122105	+	3	25961898	25962007	-	82	8.60E-143	94	110
122028	122047	-	3	25961956	25961974	-	19	7.50E-14	100	19
115839	115857	-	3	25961990	25962007	-	18	2.30E-39	100	18
130803	130845	+	3	25962011	25962052	-	42	2.20E-143	100	42
123778	123812	+	3	25962208	25962241	-	30	4.70E-127	97	34
70506	70658	+	3	25962335	25962486	-	140	2.50E-100	98	152
104750	104889	-	3	25962486	25962624	-	135	1.60E-107	99	139
96217	96292	+	3	25962623	25962697	-	67	2.80E-57	97	75
118829	118904	-	3	25962623	25962697	-	67	1.60E-107	97	75
63871	63966	-	3	25962750	25962844	-	87	7.70E-123	98	95
121525	121569	-	3	25962844	25962888	-	41	1.60E-107	98	45
89208	89276	-	3	25962885	25962951	-	56	5.40E-159	96	68
125845	125913	+	3	25962885	25962951	-	56	2.20E-143	96	68
109943	110009	-	3	25962955	25963020	-	62	1.70E-88	98	66
109478	109624	+	3	25963019	25963164	-	142	2.20E-143	99	146
91931	91989	-	3	25963160	25963217	-	54	5.40E-159	98	58
123132	123190	+	3	25963160	25963217	-	54	6.50E-133	98	58
92501	92592	-	3	25963217	25963307	-	87	5.40E-159	99	91
122529	122620	+	3	25963217	25963307	-	87	6.50E-133	99	91
18371	18413	-	3	25965835	25965877	-	43	1.20E-78	100	43
47749	47894	-	3	25965877	25966022	-	138	1.20E-78	99	146
45376	45421	+	3	25966026	25966071	-	46	1.50E-67	100	46
25614	25670	-	3	25966073	25966129	-	57	3.10E-60	100	57
20421	20458	-	3	25966128	25966165	-	38	2.00E-49	100	38
34468	34532	+	3	25966165	25966229	-	57	1.50E-67	97	65
40797	40850	-	3	25966322	25966375	-	42	3.10E-60	94	54
47019	47137	+	3	25966669	25966787	-	103	8.10E-77	97	119
44208	44245	-	3	25966788	25966825	-	38	3.10E-60	100	38

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
40318	40368	-	3	25966857	25966907	-	51	1.70E-52	100	51
26021	26067	+	3	25966907	25966953	-	39	8.10E-77	96	47
19477	19529	+	3	25967313	25967365	-	53	8.10E-77	100	53
61645	61999	+	3	26222322	26222675	-	330	8.70E-184	98	354
27257	27303	-	3	26241769	26241815	-	43	1.00E-15	98	47
42013	42215	+	3	26848645	26848847	+	203	3.90E-106	100	203
96303	97289	-	3	27560209	27561196	+	940	0	99	988
117832	118818	+	3	27560209	27561196	+	940	0	99	988
32860	33364	+	3	27563371	27563876	+	486	0	99	506
33399	33577	+	3	27563911	27564094	+	144	0	95	184
33618	34184	+	3	27564135	27564702	+	528	0	98	568
34194	34297	+	3	27564711	27564814	+	104	0	100	104
34194	34222	+	3	27565812	27565840	+	29	0	100	29
35033	35936	+	3	27565835	27566739	+	862	0	99	906
35972	36143	+	3	27566775	27566946	+	160	0	98	172
77252	77417	-	3	27797942	27798105	-	118	1.80E-57	93	166
81980	82126	+	3	27798104	27798244	-	83	1.30E-36	89	147
109098	109114	-	3	28345386	28345401	-	16	3.00E-131	100	16
82544	82866	+	3	28349675	28350000	-	168	3.00E-87	88	328
132255	132577	-	3	28349675	28350000	-	168	3.00E-131	88	328
132588	132764	-	3	28350000	28350177	-	95	3.00E-131	88	179
69398	69533	+	3	28666922	28667055	+	123	1.90E-60	98	135
7364	7467	-	3	28668632	28668734	+	96	8.30E-50	98	104
1462	1506	-	3	28722578	28722622	+	33	8.30E-50	93	45
73961	74116	-	3	28826201	28826355	-	155	1.30E-90	100	155
35798	35912	+	3	28827464	28827578	-	115	1.40E-51	100	115
60039	60433	-	3	28833882	28834269	-	338	2.50E-199	96	394
18747	18775	+	3	30309511	30309539	-	29	0.00047	100	29
26100	26179	+	3	30379203	30379279	-	44	3.80E-22	89	80
25936	26071	+	3	30379307	30379443	-	37	3.80E-22	82	137
83757	83988	-	3	31068060	31068290	-	118	1.90E-57	88	234
8681	8736	-	3	31275104	31275159	-	40	8.50E-08	93	56

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
53219	53317	+	3	31749883	31749980	-	94	3.70E-43	99	98
94931	98367	-	3	31750379	31753818	-	3417	0	100	3441
116754	120190	+	3	31750379	31753818	-	3417	0	100	3441
98383	98707	-	3	31753835	31754159	-	321	0	100	325
116414	116738	+	3	31753835	31754159	-	321	0	100	325
97569	98367	-	3	31754152	31754950	-	795	0	100	799
116754	117552	+	3	31754152	31754950	-	795	0	100	799
98383	99962	-	3	31754967	31756548	-	1570	0	100	1582
115159	116738	+	3	31754967	31756548	-	1570	0	100	1582
50357	50466	-	3	31757590	31757698	-	109	0	100	109
50474	52949	-	3	31757706	31760182	-	2461	0	100	2477
108172	108188	+	3	31781302	31781317	-	16	0	100	16
32805	32874	-	3	31799479	31799548	-	35	5.40E-31	87	71
32879	33008	-	3	31799579	31799704	-	59	5.40E-31	86	131
113812	113828	+	3	31804218	31804233	-	16	0	100	16
831	938	-	3	31975740	31975848	+	61	6.40E-45	89	109
698	815	-	3	31975847	31975962	+	51	6.40E-45	86	119
77372	77653	+	3	32243299	32243579	+	253	6.60E-138	98	281
106600	106794	-	3	33002281	33002474	-	194	1.10E-99	100	194
110974	110993	-	3	33048926	33048944	-	19	1.10E-99	100	19
54937	55046	-	3	33548676	33548784	+	74	3.10E-31	92	110
114366	114383	-	3	34136083	34136099	-	17	1.90E-198	100	17
93382	93528	+	3	34288764	34288909	-	126	2.90E-202	97	146
121593	121739	-	3	34288764	34288909	-	126	1.10E-198	97	146
93088	93374	+	3	34288915	34289200	-	255	2.90E-202	97	287
121747	122033	-	3	34288915	34289200	-	255	1.10E-198	97	287
11350	11432	+	3	34430262	34430344	+	79	0	99	83
11487	12304	+	3	34430401	34431218	+	798	0	99	818
12350	12398	+	3	34431220	34431268	+	41	0	96	49
100447	100632	+	3	35541563	35541750	-	176	3.50E-92	98	188
114489	114674	-	3	35541563	35541750	-	176	4.30E-137	98	188
103984	104131	-	3	35541936	35542082	-	147	4.60E-260	100	147



Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
101114	101380	+	3	35542718	35542983	-	254	1.20E-138	99	266
113741	114007	-	3	35542718	35542983	-	254	4.60E-260	99	266
90993	91097	+	3	35543119	35543222	-	100	9.80E-47	99	104
124024	124128	-	3	35543119	35543222	-	100	4.60E-260	99	104
109886	110015	+	3	35543309	35543437	-	129	4.20E-61	100	129
107146	107286	-	3	35543434	35543573	-	136	7.10E-142	99	140
68037	68139	-	3	35543664	35543765	-	90	8.90E-41	97	102
49513	49574	+	3	35544066	35544127	-	62	2.90E-92	100	62
17145	17331	-	3	35544469	35544655	-	183	2.90E-124	99	187
17383	17456	-	3	35544715	35544788	-	74	2.90E-124	100	74
45666	45739	+	3	35544788	35544861	-	70	2.90E-92	99	74
11643	11737	-	3	35544861	35544955	-	87	8.60E-83	98	95
15414	15491	-	3	35545315	35545392	-	78	8.60E-83	100	78
15500	15535	-	3	35545401	35545436	-	36	8.60E-83	100	36
36092	36181	+	3	35545536	35545625	-	82	2.90E-92	98	90
104222	104238	+	3	35594616	35594631	-	16	4.20E-61	100	16
112063	112081	-	3	35601399	35601416	-	18	7.10E-142	100	18
134277	134292	-	3	35890776	35890790	+	15	0	100	15
133481	133496	-	3	35925945	35925959	+	15	0	100	15
132703	132719	-	3	35933029	35933044	+	16	0	100	16
84081	84408	+	3	35938380	35938706	+	311	0	99	327
130713	131040	-	3	35938380	35938706	+	311	0	99	327
84416	85636	+	3	35938715	35939929	+	1149	0	99	1221
129485	130705	-	3	35938715	35939929	+	1149	0	99	1221
107369	107384	-	3	35944257	35944271	+	15	0	100	15
103763	103781	-	3	35949121	35949138	+	18	0	100	18
107539	107554	-	3	35953523	35953537	+	15	0	100	15
116654	116669	-	3	35956259	35956273	+	15	0	100	15
116391	116406	-	3	35972986	35973000	+	15	0	100	15
124429	124445	-	3	35979647	35979662	+	16	0	100	16
101385	101400	-	3	35985040	35985054	+	15	0	100	15
108285	108301	-	3	36001392	36001407	+	16	0	100	16

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
128393	128408	-	3	36002354	36002368	+	15	0	100	15
73850	74003	-	3	36276536	36276689	+	87	2.60E-98	89	155
71560	71691	-	3	36277018	36277147	+	119	2.60E-98	98	131
56276	56361	+	3	36277185	36277269	+	81	2.00E-35	99	85
11245	11282	-	3	36279585	36279622	+	30	0.0064	95	38
29864	30015	-	3	36279683	36279834	+	132	2.60E-61	97	152
42926	43020	+	3	36279835	36279930	+	76	4.40E-31	95	96
90539	90633	-	4	251249	251341	+	90	1.30E-97	99	94
80912	81014	-	4	251376	251477	+	102	1.30E-97	100	102
128728	128744	+	4	444890	444905	+	16	1.70E-104	100	16
84426	84802	-	4	457867	458240	+	180	2.10E-94	87	380
130319	130695	+	4	457867	458240	+	180	1.70E-104	87	380
130722	130818	+	4	458258	458348	+	40	1.70E-104	85	96
18688	18831	+	4	635874	636018	+	129	5.90E-60	97	145
18953	19065	-	4	636029	636141	+	97	6.80E-42	96	113
56662	56740	-	4	899622	899699	+	58	1.00E-21	94	78
17433	17493	-	4	1085897	1085957	+	32	2.60E-05	88	64
72022	72089	+	4	2073149	2073215	+	67	4.50E-27	100	67
6349	6502	-	4	2073534	2073687	+	154	2.30E-73	100	154
5541	5718	+	4	4295052	4295229	+	143	1.30E-91	95	179
5728	5772	+	4	4295231	4295275	+	45	1.60E-85	100	45
5759	5831	+	4	4295350	4295422	+	53	1.30E-91	93	73
18768	18912	+	4	4428133	4428270	+	90	5.70E-37	90	146
25672	25705	+	4	4974377	4974410	+	30	0.0014	97	34
34974	35175	+	4	5026829	5027029	+	114	6.00E-85	89	202
35152	35286	+	4	5027033	5027167	+	71	6.00E-85	88	135
11505	11593	-	4	5027466	5027554	+	73	8.00E-56	96	89
11320	11428	-	4	5027632	5027743	+	60	8.00E-56	88	112
68334	68446	-	4	5097334	5097441	+	61	1.70E-23	89	113
74911	75141	+	4	5189557	5189786	+	146	3.80E-74	91	230
96652	96710	+	4	5807333	5807390	+	50	6.10E-17	97	58

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
4979	5051	-	4	6813748	6813820	+	49	8.00E-14	92	73
81292	81667	+	4	7559673	7560045	+	185	2.20E-97	87	377
4813	4853	+	4	8902503	8902543	+	41	0	100	41
43009	43044	+	4	8904852	8904887	+	32	0	97	36
4353	4863	-	4	8918205	8918715	+	503	0	100	511
3553	4318	-	4	8918750	8919515	+	758	0	100	766
2941	3535	-	4	8919533	8920127	+	595	0	100	595
314	2932	-	4	8920136	8922754	+	2603	0	100	2619
41322	41364	+	4	8922866	8922908	+	43	0	100	43
41374	41491	+	4	8922918	8923035	+	118	0	100	118
41535	42468	+	4	8923079	8924012	+	920	0	100	936
42477	43683	+	4	8924021	8925219	+	1157	0	99	1209
43700	43898	+	4	8925236	8925434	+	199	0	100	199
43909	44411	+	4	8925445	8925945	+	495	0	100	503
44420	44883	+	4	8925954	8926417	+	457	0	100	465
7829	7857	-	4	8926030	8926058	+	29	1.30E-82	100	29
44892	45574	+	4	8926426	8927108	+	683	0	100	683
45613	45946	+	4	8927147	8927480	+	330	0	100	334
45968	46164	+	4	8927502	8927693	+	177	0	97	197
46193	46276	+	4	8927720	8927803	+	84	0	100	84
46286	46495	+	4	8927813	8928022	+	210	0	100	210
46504	47252	+	4	8928031	8928782	+	732	0	99	752
43009	43044	+	4	8932937	8932972	+	32	0	97	36
314	474	-	4	8933845	8934005	+	157	0	99	161
32100	32640	+	4	8934146	8934686	+	541	0	100	541
32674	33364	+	4	8934720	8935409	+	683	0	100	691
33399	33577	+	4	8935444	8935622	+	175	0	99	179
33618	34184	+	4	8935663	8936230	+	556	0	99	568
34194	35936	+	4	8936240	8937982	+	1739	0	100	1743
35972	36531	+	4	8938018	8938577	+	560	0	100	560
36541	36607	+	4	8938587	8938653	+	67	0	100	67
36616	41364	+	4	8938662	8943411	+	4692	0	100	4752

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
41374	41491	+	4	8943421	8943538	+	118	0	100	118
41535	42468	+	4	8943582	8944509	+	846	0	98	938
42477	43683	+	4	8944518	8945716	+	1149	0	99	1209
43700	43898	+	4	8945733	8945931	+	199	0	100	199
43909	44411	+	4	8945941	8946441	+	495	0	100	503
44420	44883	+	4	8946450	8946914	+	454	0	99	466
7829	7857	-	4	8946526	8946554	+	29	0	100	29
44892	45574	+	4	8946923	8947605	+	683	0	100	683
45613	45946	+	4	8947644	8947977	+	330	0	100	334
44892	45117	-	4	8948057	8948282	+	226	0	100	226
44646	44883	-	4	8948291	8948524	+	215	0	97	239
5	1248	-	4	8948727	8949970	+	1232	0	100	1244
1	37	+	4	8949945	8949980	+	33	0.00026	97	37
43009	43044	-	4	8958154	8958189	+	32	4.90E-241	97	36
43009	43044	+	4	8981254	8981289	+	32	1.50E-05	97	36
121333	121349	+	4	8983029	8983044	+	16	3.00E-05	100	16
5287	6075	+	4	8985465	8986253	+	789	0	100	789
6106	6337	+	4	8986284	8986514	+	224	0	99	232
6346	7480	+	4	8986523	8987657	+	1127	0	100	1135
7513	7582	+	4	8987690	8987759	+	70	0	100	70
7592	8037	+	4	8987769	8988214	+	446	0	100	446
44496	44524	-	4	8988006	8988034	+	29	0	100	29
8093	8203	+	4	8988270	8988380	+	111	0	100	111
8212	8513	+	4	8988389	8988690	+	302	0	100	302
8623	10105	+	4	8988731	8990213	+	1468	0	100	1484
43009	43044	+	4	8999682	8999717	+	32	0	97	36
10330	11432	+	4	9017592	9018694	+	1103	0	100	1103
11487	13987	+	4	9018749	9021252	+	2432	0	99	2508
36195	36238	+	4	9020051	9020094	+	36	0	95	44
13997	15200	+	4	9021262	9022462	+	1188	0	100	1204
15261	15491	+	4	9022523	9022753	+	231	0	100	231
15500	15902	+	4	9022762	9023164	+	399	0	100	403

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
15980	16670	+	4	9023242	9023936	+	679	0	99	695
16679	17091	+	4	9023945	9024357	+	413	0	100	413
16880	16927	-	4	9024146	9024193	+	40	0	96	48
17118	17331	+	4	9024384	9024597	+	210	0	100	214
17384	17811	+	4	9024639	9025066	+	420	0	100	428
17779	18625	+	4	9025066	9025912	+	839	0	100	847
18642	20614	+	4	9025928	9027900	+	1969	0	100	1973
20624	27108	+	4	9027910	9034394	+	6461	0	100	6485
27117	27248	+	4	9034403	9034534	+	132	0	100	132
27257	27341	+	4	9034543	9034627	+	85	0	100	85
27387	29137	+	4	9034673	9036423	+	1724	0	100	1752
29149	29503	+	4	9036435	9036789	+	355	0	100	355
29541	30253	+	4	9036827	9037539	+	713	0	100	713
31514	31555	-	4	9037578	9037619	+	42	0	100	42
43009	43044	+	4	9040282	9040317	+	32	0	97	36
1145	2000	-	4	9052053	9052909	+	846	0	100	857
87034	87815	+	4	9069761	9070536	+	754	0	99	782
127306	128087	-	4	9069761	9070536	+	754	0	99	782
87851	89655	+	4	9070573	9072375	+	1784	0	100	1804
125466	127270	-	4	9070573	9072375	+	1784	0	100	1804
89702	92998	+	4	9072422	9075719	+	3263	0	100	3299
122123	125419	-	4	9072422	9075719	+	3263	0	100	3299
93007	93374	+	4	9075729	9076095	+	355	0	99	367
121747	122114	-	4	9075729	9076095	+	355	0	99	367
122028	122047	+	4	9075796	9075814	+	19	3.00E-05	100	19
115839	115857	+	4	9075830	9075847	+	18	6.60E-06	100	18
93382	98367	+	4	9076104	9081091	+	4954	0	100	4990
116754	121739	-	4	9076104	9081091	+	4954	0	100	4990
98383	100002	+	4	9081108	9082729	+	1606	0	100	1622
114302	116738	-	4	9081108	9083547	+	2420	0	100	2440
121995	122013	+	4	9081992	9082009	+	18	6.60E-06	100	18
100002	101106	+	4	9082730	9083835	+	1098	0	100	1106

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
100618	100670	-	4	9083347	9083398	+	44	0	96	52
114451	114503	+	4	9083347	9083398	+	44	5.10E-18	96	52
114015	114240	-	4	9083610	9083835	+	222	0	100	226
113502	114007	-	4	9083844	9084348	+	505	0	100	505
101114	101393	+	4	9083844	9084122	+	279	0	100	279
112457	113486	-	4	9084365	9085393	+	1017	0	100	1029
128048	128072	-	4	9089963	9089985	+	20	0	96	24
111129	111147	+	4	9090039	9090056	+	18	0	100	18
111208	111226	+	4	9091729	9091746	+	18	0	100	18
85160	87815	+	4	9095973	9098621	+	2613	0	100	2657
127306	129961	-	4	9095973	9098621	+	2613	0	100	2657
129822	129873	+	4	9096060	9096110	+	19	0	84	55
128784	128814	+	4	9097119	9097148	+	30	0	100	30
87851	89655	+	4	9098658	9100460	+	1780	0	100	1804
125466	127270	-	4	9098658	9100460	+	1780	0	100	1804
89702	90204	+	4	9100508	9101010	+	499	0	100	503
124917	125419	-	4	9100508	9101010	+	499	0	100	503
112463	112480	+	4	9101018	9101034	+	17	0	100	17
112821	112851	+	4	9101292	9101321	+	26	0	97	30
80615	80904	+	4	9117183	9117471	+	289	0	100	289
134217	134506	-	4	9117183	9117471	+	289	0	100	289
80912	83743	+	4	9117480	9120302	+	2772	0	99	2832
131378	134209	-	4	9117480	9120302	+	2772	0	99	2832
55866	55957	-	4	9119244	9119334	+	87	2.80E-56	99	91
55807	55866	-	4	9119470	9119529	+	48	2.80E-56	95	60
83654	84408	+	4	9120221	9120965	+	691	0	98	755
130713	131467	-	4	9120221	9120965	+	691	0	98	755
84416	86225	+	4	9120974	9122782	+	1802	0	100	1810
128896	130705	-	4	9120974	9122782	+	1802	0	100	1810
129822	129873	+	4	9121806	9121856	+	19	0	84	55
89669	91898	-	4	9122797	9125025	+	2176	0	99	2232
123223	125418	+	4	9122797	9124991	+	2142	0	99	2198

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
87852	89659	-	4	9125036	9126842	+	1777	0	100	1808
125462	127269	+	4	9125036	9126842	+	1777	0	100	1808
84416	87815	-	4	9126880	9130273	+	3350	0	100	3402
127306	130705	+	4	9126880	9130273	+	3350	0	100	3402
128784	128814	-	4	9128353	9128382	+	30	0	100	30
129822	129873	-	4	9129391	9129441	+	19	0	84	55
80912	84408	-	4	9130282	9133777	+	3492	0	100	3496
130713	134209	+	4	9130282	9133777	+	3492	0	100	3496
55807	55866	+	4	9131728	9131787	+	48	0	95	60
55866	55957	+	4	9131923	9132013	+	87	0	99	91
80615	80904	-	4	9133786	9134074	+	289	0	100	289
134217	134506	+	4	9133786	9134074	+	289	0	100	289
80178	80600	-	4	9134092	9134513	+	422	0	100	422
80089	80170	-	4	9134522	9134602	+	77	0	99	81
79177	80047	-	4	9134644	9135513	+	866	0	100	870
78977	79140	-	4	9135551	9135713	+	163	0	100	163
78449	78968	-	4	9135723	9136242	+	512	0	100	520
77725	78413	-	4	9136277	9136963	+	677	0	100	689
76663	77697	-	4	9137033	9138067	+	1031	0	100	1035
129478	129495	+	4	9137787	9137803	+	17	0	100	17
76238	76528	-	4	9138196	9138485	+	290	0	100	290
75987	76222	-	4	9138501	9138735	+	235	0	100	235
75888	75970	-	4	9138752	9138833	+	82	0	100	82
74585	75875	-	4	9138846	9140135	+	1290	0	100	1290
74282	74549	-	4	9140172	9140438	+	267	0	100	267
71786	74265	-	4	9140456	9142938	+	2442	0	100	2486
71469	71750	-	4	9142975	9143255	+	277	0	100	281
70495	71371	-	4	9143353	9144228	+	876	0	100	876
108230	108305	+	4	9144287	9144361	+	71	4.10E-35	99	75
85282	87815	+	4	9144411	9146938	+	2491	0	100	2535
127306	129839	-	4	9144411	9146938	+	2491	0	100	2535
128784	128814	+	4	9145436	9145465	+	30	0	100	30

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
87851	89655	+	4	9146975	9148777	+	1788	0	100	1804
125466	127270	-	4	9146975	9148777	+	1788	0	100	1804
89702	92998	+	4	9148825	9152122	+	3271	0	100	3299
122123	125419	-	4	9148825	9152122	+	3271	0	100	3299
93007	93374	+	4	9152132	9152498	+	355	0	99	367
121747	122114	-	4	9152132	9152498	+	355	0	99	367
122028	122047	+	4	9152199	9152217	+	19	3.10E-27	100	19
115839	115857	+	4	9152233	9152250	+	18	6.10E-29	100	18
93382	93451	+	4	9152507	9152575	+	69	0	100	69
121670	121739	-	4	9152507	9152575	+	69	0	100	69
126422	126438	-	4	9161623	9161638	+	16	0	100	16
86712	87815	+	4	9177717	9178814	+	1076	0	99	1104
127306	128409	-	4	9177717	9178814	+	1076	0	99	1104
87851	89655	+	4	9178851	9180653	+	1788	0	100	1804
125466	127270	-	4	9178851	9180653	+	1788	0	100	1804
89702	92998	+	4	9180700	9183997	+	3263	0	100	3299
122123	125419	-	4	9180700	9183997	+	3263	0	100	3299
93007	93374	+	4	9184009	9184375	+	355	0	99	367
121747	122114	-	4	9184009	9184375	+	355	0	99	367
122028	122047	+	4	9184076	9184094	+	19	6.10E-29	100	19
115839	115857	+	4	9184110	9184127	+	18	2.50E-26	100	18
93382	98367	+	4	9184384	9189365	+	4907	0	100	4991
116754	121739	-	4	9184384	9189365	+	4907	0	100	4991
98383	99271	+	4	9189382	9190272	+	879	0	100	891
115850	116738	-	4	9189382	9190272	+	879	0	100	891
49511	49801	-	4	9526664	9526956	+	273	3.10E-264	98	293
49286	49502	-	4	9526969	9527185	+	217	3.10E-264	100	217
87267	87572	-	4	9672447	9672745	+	273	8.10E-150	97	305
127549	127611	+	4	9672447	9672508	+	62	1.10E-149	100	62
127613	127854	+	4	9672505	9672745	+	233	1.10E-149	99	241
25573	25604	-	4	10033016	10033047	+	32	0.0042	100	32
17684	18506	-	4	10881099	10881924	+	755	0	98	827



Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
15263	15326	-	4	10881928	10881991	+	64	0	100	64
14996	15219	-	4	10882035	10882257	+	212	0	99	224
21186	21385	-	4	11117281	11117482	+	139	2.70E-125	92	203
20988	21160	-	4	11117487	11117662	+	120	2.70E-125	92	176
80297	80402	-	4	11634187	11634291	+	89	3.50E-40	96	105
113199	113486	+	4	11913663	11913948	+	247	2.00E-145	97	287
113502	113547	+	4	11913966	11914010	+	41	2.00E-145	98	45
3316	3352	+	4	13217813	13217849	+	33	2.50E-05	97	37
48153	48485	+	4	13435539	13435872	+	286	2.80E-155	96	334
18650	18731	+	4	13661548	13661629	+	70	4.90E-37	96	82
18730	18769	+	4	13661621	13661660	+	32	4.90E-37	95	40
91892	91982	+	4	13807852	13807941	+	70	7.30E-29	94	90
49286	49502	-	4	13825531	13825747	-	209	1.60E-263	99	217
49511	49801	-	4	13825757	13826049	-	281	1.60E-263	99	293
87267	87572	+	4	13970505	13970803	+	273	8.00E-150	97	305
127613	127854	-	4	13970505	13970745	+	233	1.90E-151	99	241
127549	127611	-	4	13970742	13970803	+	62	1.90E-151	100	62
81825	82135	+	4	14189769	14190078	+	209	1.10E-111	92	313
132986	133296	-	4	14189769	14190078	+	209	2.30E-109	92	313
65719	65797	+	4	14698778	14698860	+	59	2.60E-22	93	83
24100	24235	-	4	15081254	15081386	+	87	8.70E-34	91	139
23937	24171	-	4	15081317	15081543	+	136	5.00E-62	89	236
18586	18621	-	4	16219625	16219660	+	32	0.00024	97	36
94222	94330	-	4	16825233	16825341	+	85	8.50E-38	95	109
57887	58025	+	4	17520818	17520955	+	90	7.70E-83	91	138
58048	58166	+	4	17520955	17521070	+	90	7.70E-83	94	118
29907	29935	-	4	17824189	17824217	+	29	0.0031	100	29
71970	72288	+	4	18018159	18018476	+	278	8.40E-153	97	318
35275	35369	+	4	18076370	18076463	+	37	1.70E-06	85	97
43009	43044	+	4	18755740	18755775	+	32	0.00012	97	36
26472	26757	-	4	18814630	18814916	+	232	3.60E-177	95	288
26315	26453	-	4	18814916	18815054	+	115	3.60E-177	96	139

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
85472	87815	+	4	18910557	18912891	+	2229	0	99	2345
127306	129649	-	4	18910557	18912891	+	2229	0	99	2345
128784	128814	+	4	18911390	18911419	+	30	0.0043	100	30
87851	89655	+	4	18912928	18914730	+	1724	0	99	1804
125466	127270	-	4	18912928	18914730	+	1724	0	99	1804
89702	90619	+	4	18914775	18915693	+	872	0	99	920
124502	125419	-	4	18914775	18915693	+	872	0	99	920
101953	101968	-	4	18914957	18914971	+	15	0	100	15
103447	103462	-	4	18921408	18921422	+	15	0	100	15
103547	103563	-	4	18946561	18946576	+	16	0	100	16
100322	100337	-	4	18950663	18950677	+	15	0	100	15
126718	126736	-	4	18964479	18964496	+	18	0	100	18
14863	15128	+	4	19132621	19132886	+	88	4.50E-36	83	272
8093	8200	+	4	19139819	19139927	+	38	6.00E-17	84	110
34519	34752	+	4	19523456	19523691	+	128	3.70E-74	88	240
34784	34873	+	4	19523697	19523790	+	42	3.70E-74	86	94
72963	73042	-	4	19765443	19765523	+	53	7.40E-105	91	81
72724	72945	-	4	19765525	19765746	+	164	7.40E-105	93	224
13247	13326	-	4	20050725	20050802	+	45	3.40E-11	89	81
20887	20986	+	4	20349431	20349530	+	72	1.10E-29	93	100
47455	47839	+	4	20628579	20628965	+	355	1.30E-193	98	387
5674	5857	-	4	21379405	21379587	+	124	1.50E-57	92	184
84680	84821	+	4	22077590	22077731	+	62	4.30E-24	86	142
21173	21356	+	4	22169158	22169341	+	111	2.30E-48	90	187
54178	54312	-	4	22326395	22326528	+	82	5.20E-36	90	134
19381	19442	+	4	22447039	22447100	+	50	1.10E-15	95	62
19380	19672	+	4	22447109	22447401	+	233	6.40E-124	95	293
82538	82657	+	4	22630188	22630306	+	87	5.40E-39	93	119
38382	38427	+	4	22792889	22792934	+	42	3.50E-12	98	46
6808	6890	+	4	23264714	23264796	+	83	0	100	83
20624	21036	-	4	23268704	23269116	+	397	0	99	413
20301	20614	-	4	23269126	23269439	+	306	0	99	314

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
3148	3535	+	4	23269440	23269827	+	380	0	99	388
3553	4316	+	4	23269845	23270607	+	756	0	100	764
4353	4725	+	4	23270644	23271016	+	369	0	100	373
4788	5422	+	4	23271029	23271665	+	609	0	99	637
16	490	-	4	23277921	23278395	+	455	0	99	475
8623	9521	-	4	23282583	23283480	+	868	0	99	900
26207	26634	-	4	23283483	23283910	+	424	7.10E-232	100	428
49365	49502	+	4	23283908	23284045	+	130	0	99	138
49511	50000	+	4	23284054	23284544	+	467	0	99	491
102944	102960	-	4	23404438	23404453	+	16	0	100	16
112323	113486	+	4	23417586	23418745	+	1112	0	99	1164
113502	113961	+	4	23418762	23419220	+	447	0	99	459
101114	101393	-	4	23418988	23419266	+	271	0	99	279
100002	101106	-	4	23419275	23420380	+	1074	0	99	1106
114016	116057	+	4	23419276	23421318	+	1983	0	99	2043
114451	114503	-	4	23419712	23419763	+	44	9.70E-184	96	52
100618	100670	+	4	23419712	23419763	+	44	0	96	52
99064	100002	-	4	23420381	23421318	+	910	0	99	938
121995	122013	-	4	23421101	23421118	+	18	1.10E-167	100	18
91822	92555	-	4	23424571	23425303	+	701	0	99	733
122566	123299	+	4	23424571	23425303	+	701	0	99	733
84018	84408	+	4	23428306	23428695	+	382	0	99	390
130713	131103	-	4	23428306	23428695	+	382	0	99	390
84416	84590	+	4	23428703	23428876	+	162	0	98	174
130531	130705	-	4	23428703	23428876	+	162	0	98	174
84894	87235	+	4	23428876	23431215	+	2247	0	99	2343
127886	130227	-	4	23428876	23431215	+	2247	0	99	2343
129822	129873	+	4	23429230	23429280	+	19	0	84	55
128784	128814	+	4	23430289	23430318	+	26	0	97	30
87230	87396	+	4	23434362	23434527	+	166	0	100	166
127725	127891	-	4	23434362	23434527	+	166	0	100	166
80615	80903	+	4	23435022	23435309	+	284	0	100	288

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
134218	134506	-	4	23435022	23435309	+	284	0	100	288
80912	83865	+	4	23435319	23438270	+	2857	0	99	2953
131256	134209	-	4	23435319	23438270	+	2857	0	99	2953
55866	55957	-	4	23437082	23437172	+	83	0	98	91
55807	55866	-	4	23437308	23437367	+	48	0	95	60
97037	97554	-	4	23438276	23438794	+	492	0	99	520
117567	118084	+	4	23438276	23438794	+	492	0	99	520
109030	109355	-	4	23438792	23439116	+	309	0	99	325
108480	108500	-	4	23439127	23439146	+	20	0	100	20
50002	50308	+	4	23441149	23441454	+	282	3.50E-155	98	306
133017	133034	+	4	23441462	23441478	+	17	0	100	17
115534	115551	+	4	23486430	23486446	+	17	0	100	17
105843	105859	-	4	23490127	23490142	+	16	0	100	16
2976	3387	+	4	23767741	23768152	+	217	1.90E-116	88	417
34799	34846	+	4	23955485	23955532	+	36	1.40E-07	94	48
22709	22818	+	4	24933513	24933622	+	94	7.20E-41	96	110
95665	95772	-	4	24977082	24977188	+	83	1.30E-36	94	107
30981	31182	-	4	25228436	25228639	+	129	3.40E-60	91	205
87397	87481	+	4	25448083	25448166	+	68	7.40E-90	95	84
87476	87559	+	4	25448168	25448249	+	71	7.40E-90	96	83
96770	96868	+	4	25469247	25469345	+	71	7.40E-90	93	99
3145	3225	+	4	25727295	25727374	+	33	0.0011	85	81
64575	64698	-	4	25816945	25817067	+	69	1.20E-74	89	125
64396	64540	-	4	25817100	25817247	+	97	1.20E-74	91	149
86761	86818	-	4	25874144	25874199	+	53	1.00E-18	98	57
48211	48325	+	4	25973650	25973766	+	57	8.60E-45	87	117
48345	48461	+	4	25973765	25973884	+	65	8.60E-45	88	121
23945	24332	+	4	27133310	27133697	+	388	2.80E-213	100	388
57195	57470	-	4	27212156	27212428	+	136	3.50E-68	87	280
99566	99621	+	4	30094839	30094893	+	55	6.40E-20	100	55
32069	32202	-	4	32431757	32431890	+	122	4.60E-57	98	134
116163	116181	+	4	32660453	32660470	+	18	1.50E-98	100	18

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
122359	122392	+	4	32679766	32679798	+	29	1.50E-98	97	33
122462	122536	+	4	32679915	32679987	+	32	1.50E-98	86	76
122632	122701	+	4	32680083	32680151	+	25	1.50E-98	84	69
122754	122817	+	4	32680276	32680338	+	20	1.50E-98	83	64
100865	100881	+	4	32706344	32706359	+	16	5.70E-71	100	16
92127	92231	-	4	32708170	32708273	+	69	8.20E-50	91	105
122890	122994	+	4	32708170	32708273	+	69	1.50E-98	91	105
123337	123383	+	4	32708614	32708659	+	30	1.50E-98	91	46
91571	91657	-	4	32708743	32708828	+	55	8.20E-50	91	87
123464	123550	+	4	32708743	32708828	+	55	1.50E-98	91	87
123712	123737	+	4	32708959	32708983	+	21	1.50E-98	96	25
123752	123812	+	4	32709121	32709180	+	32	1.50E-98	88	60
130887	130911	+	4	32709663	32709686	+	20	1.50E-98	96	24
83363	83447	-	4	33423539	33423624	+	50	6.10E-17	90	86
26727	26921	-	4	33865742	33865935	+	179	1.70E-89	98	195
26640	26720	-	4	33865742	33865821	+	37	1.40E-07	86	81
26704	26814	-	4	33865806	33865916	+	47	8.30E-15	86	111
90626	90707	+	4	34658405	34658487	+	63	1.10E-24	94	83
37874	41364	+	5	373694	377184	+	3445	0	100	3493
41374	41491	+	5	377194	377311	+	118	0	100	118
126	244	+	5	399718	399835	+	60	5.20E-22	88	120
25374	25507	+	5	690791	690925	+	99	1.90E-42	93	135
90010	92601	-	5	893209	895798	+	2522	0	99	2594
122520	125111	+	5	893209	895798	+	2522	0	99	2594
126860	126880	+	5	945689	945707	+	16	0	95	20
128059	128075	+	5	966014	966029	+	16	0	100	16
87913	88072	-	5	1226367	1226521	+	72	4.80E-30	86	160
43189	43322	+	5	2026985	2027119	+	65	7.90E-24	87	137
22955	22995	-	5	2311547	2311586	+	29	5.00E-05	93	41
81472	81599	+	5	2418512	2418638	+	83	1.40E-51	91	127
3575	3631	-	5	2501013	2501069	+	53	2.40E-16	98	57

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
83505	83796	+	5	2902492	2902783	+	171	4.80E-89	89	295
77363	77564	-	5	3074369	3074569	+	201	6.50E-107	100	201
77268	77548	+	5	3147467	3147743	+	148	2.40E-101	88	280
77557	77652	+	5	3147742	3147839	+	63	2.40E-101	91	99
88980	89045	+	5	3204084	3204148	+	49	2.40E-16	94	65
97612	97799	+	5	3647445	3647632	+	117	7.30E-57	90	189
46739	46825	-	5	4775308	4775394	+	55	6.50E-19	91	87
82341	82438	+	5	4826279	4826375	+	81	2.00E-35	96	97
29363	29495	+	5	5004167	5004298	+	102	1.80E-49	94	134
13369	13426	+	5	5632970	5633029	+	41	8.60E-10	92	61
13369	13426	+	5	5649492	5649551	+	41	8.60E-10	92	61
87926	87994	-	5	6649504	6649571	+	68	1.10E-27	100	68
24295	24347	+	5	7973921	7973973	+	37	3.30E-07	92	53
24320	24402	+	5	7973976	7974058	+	44	9.80E-11	88	84
89475	89653	+	5	8014205	8014385	+	149	6.20E-76	96	181
8345	8513	+	5	8658835	8659002	+	75	5.40E-33	86	171
17707	17739	-	5	9043006	9043038	+	33	4.40E-07	100	33
85048	85119	+	5	9141950	9142020	+	71	1.90E-29	100	71
57800	57861	-	5	10706588	10706648	+	49	2.40E-16	95	61
23871	23924	+	5	10718137	10718190	+	42	9.60E-196	94	54
23937	24425	+	5	10727034	10727520	+	327	9.60E-196	92	495
29611	29686	+	5	11532509	11532584	+	48	1.70E-24	91	76
29739	29780	+	5	11532607	11532648	+	34	1.70E-24	95	42
37425	37543	-	5	12714692	12714810	+	119	2.00E-54	100	119
28148	29137	+	5	12777716	12778704	+	962	0	99	990
29149	29503	+	5	12778715	12779069	+	347	0	99	355
29541	29593	+	5	12779107	12779159	+	53	0	100	53
18973	20614	+	5	12779157	12780798	+	1606	0	99	1642
9562	11432	+	5	12799391	12801262	+	1828	0	99	1872
11487	12066	+	5	12801317	12801896	+	576	0	100	580
21083	23944	+	5	12801914	12804779	+	2806	0	99	2866
74628	75875	+	5	12808945	12810191	+	1239	0	100	1247

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
75987	76222	+	5	12810304	12810538	+	235	0	100	235
76238	76511	+	5	12810555	12810827	+	273	0	100	273
76597	77696	+	5	12810914	12812013	+	1096	0	100	1100
77724	78413	+	5	12812042	12812729	+	678	0	100	690
78449	78968	+	5	12812761	12813280	+	516	0	100	520
78977	79140	+	5	12813290	12813452	+	163	0	100	163
79177	79509	+	5	12813490	12813821	+	328	0	100	332
79567	79856	+	5	12813880	12814168	+	289	0	100	289
120949	120965	+	5	12864309	12864324	+	16	0	100	16
95611	96398	-	5	12880327	12881115	+	741	0	98	789
118723	119510	+	5	12880327	12881115	+	741	0	98	789
93382	95620	-	5	12881359	12883595	+	2174	0	99	2238
119501	121739	+	5	12881359	12883595	+	2174	0	99	2238
93007	93374	-	5	12883608	12883974	+	351	0	99	367
121747	122114	+	5	12883608	12883974	+	351	0	99	367
91409	92998	-	5	12883983	12885571	+	1553	0	99	1589
122123	123712	+	5	12883983	12885571	+	1553	0	99	1589
89669	91414	-	5	12896978	12898724	+	1693	0	99	1749
123707	125418	+	5	12896978	12898690	+	1659	0	99	1715
89511	89659	-	5	12898734	12898881	+	148	0	100	148
125462	125610	+	5	12898734	12898881	+	148	0	100	148
84416	87719	-	5	12904274	12907570	+	3222	0	99	3306
127402	130705	+	5	12904274	12907570	+	3222	0	99	3306
84256	84408	-	5	12907579	12907730	+	148	0	99	152
130713	130865	+	5	12907579	12907730	+	148	0	99	152
83874	84256	-	5	12907731	12908112	+	374	5.30E-210	99	382
130865	131247	+	5	12907731	12908112	+	374	3.70E-210	99	382
16294	16360	-	5	13770137	13770203	+	67	2.00E-22	100	67
4783	4967	+	5	14267510	14267699	+	88	6.30E-39	86	192
93094	93326	-	5	14419739	14419969	+	196	6.90E-182	96	232
121795	122027	+	5	14419739	14419969	+	196	1.30E-179	96	232
93007	93073	-	5	14419977	14420042	+	58	6.90E-182	97	66

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
122048	122114	+	5	14419977	14420042	+	58	1.30E-179	97	66
92879	92998	-	5	14420056	14420174	+	111	6.90E-182	98	119
122123	122242	+	5	14420056	14420174	+	111	1.30E-179	98	119
9114	9181	-	5	14910514	14910581	+	45	4.00E-11	91	69
47116	47170	+	5	15612100	15612154	+	31	3.00E-05	89	55
47116	47170	-	5	15658726	15658780	+	31	4.30E-06	89	55
99935	100000	+	5	16251783	16251847	+	54	2.50E-19	95	66
20271	20328	-	5	16325842	16325899	+	30	0.0013	88	58
40895	40930	+	5	16681606	16681641	+	32	7.40E-05	97	36
103221	103423	-	5	17357581	17357784	+	164	3.10E-109	95	204
103090	103186	-	5	17357803	17357900	+	63	3.10E-109	91	99
21159	21263	-	5	18340918	18341022	+	101	1.50E-42	99	105
26919	26963	+	5	18927895	18927939	+	41	5.10E-09	98	45
16618	16670	+	5	19217404	19217456	+	53	1.40E-26	100	53
16679	16712	+	5	19217465	19217498	+	34	1.40E-26	100	34
58138	58215	-	5	19322694	19322770	+	77	5.00E-33	100	77
68043	68134	+	5	19323136	19323226	+	83	9.30E-66	98	91
91589	91661	+	5	19323227	19323298	+	68	9.30E-66	99	72
79177	79559	-	5	19604575	19604955	+	350	0	98	382
78977	79140	-	5	19604990	19605152	+	159	0	99	163
78449	78968	-	5	19605160	19605679	+	485	0	98	521
77725	78413	-	5	19605707	19606393	+	638	0	98	690
76685	77697	-	5	19606423	19607435	+	943	0	98	1015
76632	76684	-	5	19607416	19607467	+	52	0	100	52
76238	76528	-	5	19607570	19607859	+	274	0	99	290
76134	76220	-	5	19607877	19607962	+	86	0	100	86
66890	66951	+	5	19811678	19811738	+	57	4.10E-21	98	61
32457	32521	-	5	20186279	20186342	+	41	1.30E-13	91	65
65700	65771	-	5	20291370	20291440	+	55	6.40E-20	94	71
51954	53330	+	5	20888563	20889937	+	1340	0	99	1376
53424	53871	+	5	20890032	20890478	+	405	0	98	449
53859	53919	+	5	20890481	20890539	+	56	0	98	60



Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
53918	53993	+	5	20890521	20890594	+	67	0	97	75
54010	55047	+	5	20890613	20891646	+	989	0	99	1037
101412	101442	+	5	20891646	20891675	+	22	8.90E-121	93	30
101494	101690	+	5	20891728	20891923	+	180	8.90E-121	98	196
101702	101770	+	5	20891935	20892003	+	65	8.90E-121	99	69
111750	111770	+	5	20894370	20894388	+	16	8.90E-121	95	20
37070	37147	+	5	23127261	23127336	+	44	7.40E-21	89	80
37211	37292	+	5	23127532	23127612	+	31	7.40E-21	84	83
4357	4402	-	5	24271033	24271078	+	46	2.70E-19	100	46
4291	4318	-	5	24271119	24271146	+	28	2.70E-19	100	28
46888	47167	-	5	24302925	24303200	+	105	4.40E-45	84	285
86559	86634	+	5	25302499	25302573	+	56	1.60E-20	93	76
23792	23835	+	5	25375096	25375139	+	40	8.20E-09	98	44
20732	20812	+	5	29188744	29188824	+	73	4.10E-27	98	81
74282	74547	-	5	29363534	29363798	+	253	4.00E-141	99	265
76597	76688	+	5	29435279	29435368	+	79	3.20E-34	97	91
48055	49273	-	6	12745719	12746936	+	1155	0	99	1219
49511	50000	-	6	12744988	12745480	+	469	0	99	493
8623	8820	+	6	449621	449819	+	187	2.10E-94	98	199
51009	52540	+	6	1094075	1095606	+	1473	0	99	1533
52534	52692	+	6	1106818	1106975	+	146	0	98	158
52683	52749	+	6	1107048	1107112	+	58	0	97	66
14442	14486	-	6	1556081	1556125	+	29	0.0053	91	45
10669	10763	+	6	2099314	2099405	-	51	7.70E-22	88	95
7989	8058	-	6	2544487	2544551	+	42	1.00E-09	90	70
91275	91373	-	6	2577794	2577891	+	50	6.10E-17	88	98
36756	36808	+	6	3782402	3782454	+	53	1.20E-14	100	53
7592	7780	-	6	4004983	4005171	+	177	6.60E-298	98	189
7531	7582	-	6	4005180	4005231	+	44	6.60E-298	96	52
7513	7541	-	6	4005231	4005259	+	29	5.10E-289	100	29
7126	7481	-	6	4005291	4005644	+	332	6.60E-298	98	356

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
34304	34378	-	6	4693313	4693387	+	55	5.90E-18	93	75
32344	32557	-	6	5858043	5858261	+	103	1.50E-65	87	223
32255	32347	-	6	5858265	5858354	+	53	1.50E-65	89	93
44546	44587	-	6	5985042	5985083	+	34	7.30E-06	95	42
81967	82058	+	6	6626166	6626256	+	83	1.30E-36	98	91
7306	7482	-	6	6686912	6687088	+	157	2.20E-79	97	177
84697	84845	+	6	7000748	7000898	+	128	2.00E-63	96	152
130276	130424	-	6	7000748	7000898	+	128	1.80E-60	96	152
84843	85153	+	6	7000843	7001157	+	275	5.20E-151	97	315
129968	130278	-	6	7000843	7001157	+	275	2.40E-147	97	315
116092	116108	-	6	7027358	7027373	+	16	2.40E-147	100	16
19419	19680	+	6	7433476	7433736	+	176	1.40E-93	92	264
9033	9145	-	6	8287312	8287424	+	58	4.70E-20	88	114
59879	60031	+	6	8884496	8884647	+	140	5.50E-80	98	152
48748	48868	-	6	9347185	9347305	+	101	1.10E-118	96	121
23841	23932	-	6	9347936	9348027	+	88	1.10E-118	99	92
88270	88360	-	6	9349785	9349874	+	86	2.20E-38	99	90
19955	20059	+	6	9349872	9349976	+	101	2.40E-54	99	105
20624	20692	-	6	9351068	9351136	+	69	1.10E-118	100	69
251	388	+	6	9351164	9351301	+	134	7.10E-75	99	138
32064	32136	+	6	9374779	9374850	+	37	7.10E-75	88	73
32981	33364	+	6	9744242	9744626	+	353	3.20E-211	98	385
33399	33452	+	6	9744661	9744714	+	50	3.20E-211	98	54
49190	49224	-	6	9932376	9932410	+	31	6.80E-05	97	35
29065	29130	+	6	10415113	10415178	+	58	3.80E-18	97	66
45987	46089	+	6	11346632	11346734	+	99	6.00E-43	99	103
47455	47839	-	6	11779681	11780065	+	340	1.00E-184	97	388
50474	51272	-	6	12743717	12744512	+	744	0	98	800
50002	50466	-	6	12744521	12744987	+	419	0	97	467
49286	49502	-	6	12745493	12745710	+	214	0	100	218
43305	43342	-	6	13364417	13364454	+	38	8.90E-40	100	38
43199	43295	-	6	13364454	13364550	+	73	8.90E-40	94	97

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
94004	94195	-	6	13409448	13409637	+	147	9.70E-75	94	191
23757	24190	-	6	13473367	13473800	+	291	2.80E-156	92	435
3091	3148	-	6	13651869	13651926	+	42	3.50E-11	93	58
3406	3455	+	6	13912720	13912769	+	46	1.40E-11	98	50
52676	52730	+	6	14005159	14005212	+	50	6.10E-17	98	54
119703	119719	-	6	14502692	14502707	+	16	2.00E-63	100	16
103800	103821	-	6	14508741	14508760	+	17	6.60E-12	95	21
129764	129780	-	6	14527368	14527383	+	16	2.00E-63	100	16
109430	109446	-	6	14543230	14543245	+	16	2.00E-63	100	16
23445	23512	+	6	14544412	14544478	+	60	1.70E-21	97	68
89222	89298	-	6	14544505	14544580	+	64	1.10E-87	96	76
125823	125899	+	6	14544505	14544580	+	64	8.90E-91	96	76
69112	69206	-	6	14544580	14544673	+	82	8.90E-63	97	94
84641	84758	+	6	14544816	14544932	+	98	1.50E-45	96	118
130363	130480	-	6	14544816	14544932	+	98	5.60E-112	96	118
107502	107633	-	6	14544930	14545060	+	107	5.60E-112	95	131
101728	101781	-	6	14547704	14547759	+	44	5.60E-112	95	56
3163	3233	+	6	14547935	14548005	+	59	7.40E-73	96	71
3223	3357	+	6	14548001	14548136	+	104	7.40E-73	94	136
112125	112221	-	6	14548135	14548230	+	92	2.10E-87	99	96
87440	87584	-	6	14548233	14548376	+	124	1.10E-87	97	144
127537	127681	+	6	14548233	14548376	+	124	8.90E-91	97	144
127674	127703	+	6	14548379	14548407	+	25	8.90E-91	97	29
114974	115179	+	6	15795565	15795770	+	198	1.50E-99	99	206
100002	100147	-	6	15795565	15795710	+	138	3.20E-67	99	146
99942	100002	-	6	15795711	15795770	+	60	6.70E-23	100	60
43980	44066	+	6	15866884	15866968	+	32	1.00E-05	84	88
76406	76511	+	6	16374233	16374337	+	105	1.00E-49	100	105
8123	8187	-	6	16966360	16966425	+	39	7.70E-07	90	67
39620	39661	-	6	17148991	17149032	+	42	1.20E-09	100	42
94016	94132	+	6	17970176	17970291	+	100	9.80E-47	97	116
105755	105772	+	6	18804007	18804023	+	17	0	100	17

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
104578	104596	+	6	18817200	18817217	+	18	0	100	18
114348	114363	+	6	18830224	18830238	+	15	0	100	15
105516	105532	+	6	18862690	18862705	+	16	0	100	16
108812	108827	+	6	18887544	18887558	+	15	0	100	15
109979	109994	+	6	18892339	18892353	+	15	0	100	15
108812	108827	+	6	18896521	18896535	+	15	0	100	15
122073	122088	+	6	18902803	18902817	+	15	1.80E-303	100	15
112970	112985	+	6	18931083	18931097	+	15	0	100	15
93382	93530	-	6	18948589	18948736	+	132	0	97	148
121591	121739	+	6	18948589	18948736	+	132	0	97	148
120494	120510	+	6	18948589	18948604	+	16	0	100	16
93007	93374	-	6	18948749	18949113	+	327	0	97	367
121747	122114	+	6	18948749	18949113	+	327	0	97	367
92410	92998	-	6	18949134	18949721	+	544	0	98	588
122123	122711	+	6	18949134	18949721	+	544	0	98	588
70466	70549	-	6	19860654	19860736	+	67	5.30E-115	95	83
70262	70467	-	6	19862541	19862745	+	167	5.30E-115	95	207
44980	45024	-	6	20401682	20401727	+	30	4.40E-06	91	46
83335	83426	-	6	20505976	20506066	+	71	1.90E-29	95	91
98615	98768	-	6	20890028	20890180	+	103	1.60E-48	92	155
4062	4316	+	6	21245255	21245510	+	221	7.10E-153	97	257
4353	4435	+	6	21245547	21245629	+	83	7.10E-153	100	83
86352	86412	+	6	21306320	21306379	+	52	3.90E-18	97	60
126671	126732	+	6	21595592	21595652	+	41	2.60E-102	92	61
126716	126772	+	6	21596073	21596125	+	36	3.20E-98	91	56
88095	88352	-	6	21596408	21596663	+	173	5.20E-103	92	257
126769	127026	+	6	21596408	21596663	+	173	2.60E-102	92	257
127126	127142	+	6	21596678	21596693	+	16	2.20E-99	100	16
127123	127142	+	6	21596756	21596774	+	19	2.60E-102	100	19
8220	8415	-	6	22087267	22087463	+	181	5.00E-91	98	197
19363	19419	-	6	22893287	22893344	+	35	2.50E-06	90	59
38560	38611	-	6	23197497	23197548	+	40	4.90E-12	94	52

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
49919	50000	-	6	23547959	23548040	+	82	1.90E-34	100	82
79177	79404	-	6	23562362	23562588	+	227	0	100	227
78977	79140	-	6	23562623	23562785	+	159	0	99	163
78449	78968	-	6	23562793	23563312	+	500	0	99	520
77725	78413	-	6	23563340	23564020	+	649	0	99	689
76632	77697	-	6	23564049	23565114	+	1038	0	99	1066
76238	76528	-	6	23565215	23565504	+	278	0	99	290
75987	76222	-	6	23565520	23565754	+	231	0	100	235
75888	75970	-	6	23565771	23565852	+	82	0	100	82
74585	75875	-	6	23565866	23567155	+	1246	0	99	1290
74282	74549	-	6	23567192	23567458	+	263	0	100	267
72078	74265	-	6	23567476	23569663	+	2131	0	99	2191
71786	72099	-	6	23569664	23569978	+	292	0	98	316
71469	71750	-	6	23570015	23570295	+	281	0	100	281
69541	71371	-	6	23570394	23572223	+	1757	0	99	1833
65618	69533	-	6	23572232	23576146	+	3806	0	99	3918
63780	65608	-	6	23576156	23577983	+	1794	0	100	1830
63515	63772	-	6	23577992	23578249	+	250	0	99	258
63380	63507	-	6	23578257	23578383	+	127	0	100	127
63066	63371	-	6	23578384	23578688	+	301	0	100	305
61083	63058	-	6	23578697	23580671	+	1960	0	100	1976
60680	61075	-	6	23580680	23581079	+	372	0	98	400
60039	60651	-	6	23581109	23581720	+	596	0	99	612
59161	60031	-	6	23581729	23582598	+	844	0	99	872
58693	59130	-	6	23582631	23583067	+	425	0	99	437
57883	58674	-	6	23583086	23583878	+	769	0	99	793
57062	57875	-	6	23583887	23584698	+	789	0	99	813
55612	57010	-	6	23584733	23586132	+	1364	0	99	1400
82676	82767	+	6	23585788	23585878	+	83	2.80E-63	98	91
82902	82962	+	6	23585879	23585937	+	48	2.80E-63	95	60
54010	55539	-	6	23586206	23587733	+	1513	0	100	1529
53859	53993	-	6	23587751	23587884	+	134	0	100	134

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
53431	53871	-	6	23587887	23588326	+	410	0	98	442
50474	53330	-	6	23588428	23591285	+	2786	0	99	2858
50002	50466	-	6	23591293	23591756	+	444	0	99	464
90542	90658	-	6	23687273	23687389	+	98	8.10E-125	96	118
124463	124579	+	6	23687273	23687389	+	98	1.10E-158	96	118
112776	112792	+	6	23691214	23691229	+	16	3.60E-109	100	16
104661	104677	-	6	23699787	23699802	+	16	4.90E-20	100	16
101114	101184	-	6	23709799	23709868	+	58	4.90E-20	96	70
101090	101106	-	6	23709877	23709892	+	16	4.90E-20	100	16
133937	134043	+	6	23713682	23713786	+	74	1.10E-158	92	106
80923	81072	-	6	23713780	23713930	+	107	8.10E-125	93	151
134049	134198	+	6	23713780	23713930	+	107	1.10E-158	93	151
80797	80898	-	6	23713949	23714052	+	64	8.10E-125	90	104
134223	134324	+	6	23713949	23714052	+	64	1.10E-158	90	104
51620	51950	-	6	24553703	24554031	+	306	1.80E-169	98	330
17656	17693	-	6	24793608	24793645	+	34	2.00E-06	97	38
38946	38995	-	6	25263254	25263303	+	38	4.20E-08	94	50
43757	43795	-	6	25432551	25432589	+	35	1.50E-05	97	39
96324	96389	-	6	25682252	25682316	+	65	7.10E-26	100	65
48068	48207	-	6	25964004	25964147	+	97	1.20E-133	92	145
8160	8203	+	6	25967528	25967571	+	44	3.90E-56	100	44
8212	8308	+	6	25967579	25967676	+	94	3.90E-56	99	98
21689	21872	-	6	25967673	25967854	+	172	1.20E-133	98	184
88609	88680	+	6	26425091	26425161	+	63	1.10E-24	97	71
49870	49912	-	6	26925963	26926005	+	43	1.60E-11	100	43
84466	84550	-	6	26969846	26969929	+	80	8.10E-35	99	84
55397	55464	+	6	27093981	27094047	+	63	1.10E-24	99	67
55397	55464	+	6	27094089	27094155	+	63	1.10E-24	99	67
90685	90779	+	6	27107101	27107191	+	54	2.50E-19	89	94
104272	104288	+	6	28050413	28050428	+	16	0	100	16
100865	100880	+	6	28050413	28050427	+	15	0	100	15
106858	106873	-	6	28053354	28053368	+	15	6.80E-05	100	15

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
116391	116406	-	6	28069127	28069141	+	15	1.60E-05	100	15
121391	121406	-	6	28075598	28075612	+	15	1.60E-05	100	15
111105	111120	-	6	28079405	28079419	+	15	1.60E-05	100	15
103748	103763	+	6	28093559	28093573	+	15	0	100	15
100865	100881	+	6	28111236	28111251	+	16	0	100	16
104272	104287	+	6	28111236	28111250	+	15	0	100	15
116391	116406	-	6	28115718	28115732	+	15	1.60E-05	100	15
110588	110607	-	6	28149895	28149913	+	19	1.60E-05	100	19
104893	104908	+	6	28153401	28153415	+	15	0	100	15
122676	122691	-	6	28156078	28156092	+	15	0.0012	100	15
116391	116406	-	6	28166928	28166942	+	15	0.0012	100	15
116391	116406	-	6	28172125	28172139	+	15	0.0012	100	15
104817	106389	+	6	28179111	28180682	+	1554	0	100	1574
109988	110003	-	6	28179214	28179228	+	15	1.60E-05	100	15
105762	105794	-	6	28180056	28180087	+	32	1.60E-05	100	32
106397	107431	+	6	28180691	28181724	+	1026	0	100	1034
107439	107488	+	6	28181733	28181781	+	49	0	100	49
107496	109024	+	6	28181790	28183317	+	1520	0	100	1528
115247	115262	+	6	28191866	28191880	+	15	0	100	15
12530	12722	+	6	28216633	28216821	+	161	9.70E-79	96	193
24863	24981	-	6	28216824	28216942	+	111	3.30E-81	98	119
15911	15940	-	6	28217223	28217252	+	30	3.30E-81	100	30
15847	15902	-	6	28217261	28217316	+	48	3.30E-81	96	56
86024	86135	+	6	28260321	28260431	+	107	6.60E-51	99	111
54688	54829	-	6	28261114	28261254	+	129	5.20E-64	98	141
81719	81967	-	6	28330773	28331017	+	133	2.10E-66	88	249
70104	70225	-	6	29453426	29453545	+	71	1.90E-29	89	123
89774	89840	+	7	1123050	1123115	+	54	2.50E-19	95	66
94977	95138	+	7	1761774	1761934	+	73	1.20E-30	86	161
20349	20423	+	7	1901688	1901762	+	51	2.00E-12	92	75
20400	20562	+	7	1901765	1901927	+	139	8.40E-63	96	163

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
12865	12938	+	7	3116844	3116917	+	74	3.50E-28	100	74
112735	112985	+	7	4009150	4009398	+	234	2.50E-122	98	250
55066	55167	+	7	4049235	4049333	+	54	2.50E-19	88	102
82017	82126	+	7	4475047	4475153	+	85	8.50E-38	95	109
77252	77417	-	7	4475152	4475313	+	110	1.10E-52	92	166
64418	64523	+	7	4579506	4579609	+	101	2.50E-47	99	105
43503	43534	-	7	4725677	4725708	+	32	1.60E-07	100	32
10074	10114	+	7	4797246	4797286	+	33	8.30E-06	95	41
85542	85686	-	7	4797286	4797429	+	108	1.70E-51	94	144
38939	39201	+	7	5509295	5509559	+	90	4.00E-36	83	266
46674	46740	-	7	6223089	6223156	+	48	8.50E-16	93	68
51102	51187	+	7	6697306	6697388	+	73	1.20E-30	96	85
94996	95099	+	7	6902933	6903035	+	60	6.70E-23	89	104
20900	20939	+	7	7274543	7274582	+	36	6.80E-09	98	40
65510	65608	+	7	7503081	7503178	+	90	0	98	98
65618	65733	+	7	7503187	7503301	+	79	1.70E-281	92	115
65675	65752	+	7	7503223	7503299	+	49	1.10E-263	91	77
65705	65962	+	7	7503232	7503485	+	202	0	95	258
65994	66462	+	7	7503487	7503956	+	364	0	94	472
60828	60947	-	7	8933513	8933631	+	115	1.10E-55	99	119
3825	3918	-	7	9086833	9086925	+	86	2.80E-34	98	94
18111	18284	-	7	9086922	9087096	+	152	4.10E-74	97	176
80251	80320	-	7	10125966	10126034	+	61	1.70E-23	97	69
127085	127100	-	7	12604761	12604775	+	15	0	100	15
109604	109619	-	7	12635705	12635719	+	15	0	100	15
131464	131479	-	7	12638933	12638947	+	15	0	100	15
131464	131480	-	7	12640666	12640681	+	16	0	100	16
114570	114589	-	7	12655457	12655476	+	16	0	95	20
109612	109912	-	7	12657295	12657594	+	300	0	100	300
107502	109606	-	7	12657589	12659692	+	2080	0	100	2104
107439	107488	-	7	12659707	12659755	+	49	0	100	49
106397	107431	-	7	12659767	12660800	+	1015	0	100	1035



Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
105820	106389	-	7	12660810	12661378	+	557	0	99	569
101031	101046	-	7	12675650	12675664	+	15	0	100	15
65390	65450	-	7	12819016	12819074	+	48	9.50E-16	95	60
105516	105532	+	7	14209702	14209717	+	16	0	100	16
108285	108301	+	7	14212663	14212678	+	16	0	100	16
108285	108301	+	7	14217309	14217324	+	16	0	100	16
131463	131480	-	7	14220448	14220464	+	17	0.00011	100	17
93382	94985	-	7	14228664	14230265	+	1599	0	100	1603
120136	121739	+	7	14228664	14230265	+	1599	0	100	1603
93007	93374	-	7	14230274	14230640	+	367	0	100	367
121747	122114	+	7	14230274	14230640	+	367	0	100	367
89669	92998	-	7	14230653	14233983	+	3300	0	100	3332
122123	125418	+	7	14230653	14233949	+	3266	0	100	3298
87852	89659	-	7	14233994	14235799	+	1791	0	100	1807
125462	127269	+	7	14233994	14235799	+	1791	0	100	1807
43009	43044	-	7	14234299	14234334	+	32	1.60E-06	97	36
84416	87815	-	7	14235837	14239230	+	3354	0	100	3402
127306	130705	+	7	14235837	14239230	+	3354	0	100	3402
128784	128814	-	7	14237310	14237339	+	30	0.00011	100	30
80912	84408	-	7	14239239	14242734	+	3492	0	100	3496
130713	134209	+	7	14239239	14242734	+	3492	0	100	3496
55807	55866	+	7	14240685	14240744	+	48	3.00E-56	95	60
55866	55957	+	7	14240880	14240970	+	87	3.00E-56	99	91
80615	80904	-	7	14242743	14243031	+	289	0	100	289
134217	134506	+	7	14242743	14243031	+	289	0	100	289
113283	113299	-	7	14260414	14260429	+	16	0.0003	100	16
113283	113299	-	7	14316256	14316271	+	16	0.00011	100	16
26315	26640	+	7	14367107	14367433	+	272	2.70E-143	96	328
4487	4541	-	7	14758392	14758446	+	43	1.10E-47	95	55
4161	4274	-	7	14765766	14765878	+	77	1.10E-47	91	117
76377	76528	-	7	15560519	15560669	+	151	4.00E-77	100	151
6614	6709	+	7	15560668	15560763	+	96	5.30E-129	100	96

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
16213	16311	+	7	15560762	15560860	+	95	5.30E-129	99	99
28178	28236	+	7	15583878	15583936	+	59	5.30E-129	100	59
28272	28330	+	7	15583932	15583990	+	47	5.30E-129	95	59
9014	9127	+	7	15583991	15584104	+	106	5.80E-93	98	114
102672	102688	+	7	16595756	16595771	+	16	3.00E-287	100	16
108550	108566	+	7	16654088	16654103	+	16	3.00E-287	100	16
109815	109831	+	7	16664400	16664415	+	16	3.00E-287	100	16
85504	86020	-	7	16668129	16668644	+	516	1.30E-294	100	516
129101	129617	+	7	16668129	16668644	+	516	3.00E-287	100	516
131464	131480	+	7	16682819	16682834	+	16	3.00E-287	100	16
131464	131480	+	7	16692184	16692199	+	16	3.00E-287	100	16
48892	48977	-	7	16779084	16779168	+	54	2.50E-37	91	86
48838	48896	-	7	16794305	16794363	+	39	2.50E-37	92	59
30468	30732	+	7	17637127	17637391	+	193	1.80E-99	93	265
26315	26640	-	7	17777692	17778017	+	271	1.80E-143	96	327
40034	40089	+	7	17788193	17788248	+	40	2.60E-09	93	56
89046	89246	-	7	18890629	18890832	+	126	3.20E-62	90	206
3562	3709	-	7	19204360	19204507	+	128	6.40E-59	97	148
62265	62484	+	7	19204499	19204717	+	187	7.00E-234	96	219
96154	96355	+	7	19204715	19204915	+	181	7.00E-234	98	201
118766	118967	-	7	19204715	19204915	+	181	8.00E-131	98	201
132150	132166	-	7	19205823	19205838	+	16	1.60E-33	100	16
124655	124671	-	7	19232921	19232936	+	16	1.60E-33	100	16
105894	105910	-	7	19245350	19245365	+	16	4.00E-89	100	16
98892	98984	+	7	19280572	19280664	+	85	7.00E-234	98	93
116137	116229	-	7	19280572	19280664	+	85	8.00E-131	98	93
13601	13797	-	7	19594700	19594892	+	102	7.30E-44	88	202
35396	35517	+	7	20759746	20759867	+	106	4.20E-47	97	122
12164	12252	-	7	21757878	21757966	+	89	1.50E-38	100	89
20290	20514	-	7	21839513	21839737	+	217	1.80E-109	99	225
91353	91687	+	7	21874508	21874841	+	294	2.50E-162	97	334
123434	123768	-	7	21874508	21874841	+	294	6.20E-164	97	334

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
123412	123440	-	7	21874844	21874871	+	28	6.20E-164	100	28
63515	63761	-	7	22396433	22396679	+	239	0	99	247
63066	63507	-	7	22396688	22397130	+	411	0	98	443
61826	63058	-	7	22397139	22398368	+	1145	0	98	1233
91333	91416	-	7	22419465	22419547	+	83	1.30E-36	100	83
122491	122633	-	7	22936188	22936329	+	86	1.50E-120	90	142
122364	122480	-	7	22936331	22936446	+	53	1.50E-120	86	117
122329	122363	-	7	22936685	22936718	+	26	1.50E-120	94	34
92821	92986	+	7	22936737	22936907	+	91	2.30E-41	88	171
122135	122300	-	7	22936737	22936907	+	91	1.50E-120	88	171
122054	122110	-	7	22936940	22936994	+	36	1.50E-120	91	56
121967	121992	-	7	22937042	22937066	+	21	1.50E-120	96	25
10534	10661	-	7	22973765	22973890	+	57	3.80E-19	86	129
24551	24967	-	7	22995857	22996271	+	377	5.50E-254	98	417
24447	24545	-	7	22996271	22996369	+	95	5.50E-254	99	99
14599	14699	+	7	23007102	23007200	+	58	2.30E-17	89	102
13278	13569	-	7	23560810	23561103	+	136	5.70E-64	86	300
18494	18533	-	7	23641058	23641097	+	32	7.40E-06	95	40
22006	22104	-	7	24074751	24074851	+	45	3.20E-11	86	101
11317	11372	-	7	24162250	24162308	+	39	1.00E-08	92	59
7063	7120	-	7	24626169	24626226	+	34	1.90E-13	90	58
112759	112909	+	7	24746169	24746317	+	142	6.70E-272	99	150
112916	113303	+	7	24746312	24746698	+	359	6.70E-272	98	387
128775	128792	+	7	24772248	24772264	+	17	2.40E-271	100	17
35383	35469	+	7	24917149	24917235	+	83	1.50E-34	99	87
10367	10457	-	7	27924267	27924360	+	42	3.70E-10	86	94
76163	76222	+	7	27973545	27973603	+	59	0	100	59
76238	76511	+	7	27973619	27973891	+	261	0	99	273
76597	77696	+	7	27973976	27975075	+	1080	0	100	1100
77724	78413	+	7	27975104	27975791	+	666	0	99	690
78449	78968	+	7	27975819	27976338	+	508	0	99	520
78977	79140	+	7	27976347	27976509	+	163	0	100	163

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
79177	79509	+	7	27976546	27976877	+	324	0	99	332
79567	80050	+	7	27976936	27977419	+	476	0	100	484
80088	80170	+	7	27977457	27977538	+	82	0	100	82
80178	80600	+	7	27977547	27977968	+	418	0	100	422
80615	80809	+	7	27977983	27978176	+	186	0	99	194
85207	85305	-	7	28021411	28021509	+	79	3.20E-34	95	99
47580	47635	+	7	28938574	28938629	+	44	2.30E-12	95	56
33864	34028	-	7	29006233	29006398	+	91	9.50E-37	89	167
1	2932	-	8	22189961	22192892	+	2932	0	100	2932
74282	74422	+	8	71013	71152	+	128	1.30E-132	98	140
74414	74547	+	8	71153	71284	+	113	1.30E-132	96	133
1748	1783	-	8	865249	865283	+	28	0.00052	94	36
94713	94876	+	8	899815	899974	+	127	8.00E-63	94	163
29376	29476	-	8	2686094	2686196	+	67	8.50E-27	91	103
28867	28921	+	8	2909472	2909526	+	43	6.00E-63	95	55
28939	29120	+	8	2909531	2909709	+	112	6.00E-63	90	184
32517	32567	-	8	3319390	3319440	+	43	3.00E-10	96	51
96706	96852	-	8	3579732	3579876	+	103	2.90E-130	93	147
118269	118415	+	8	3579732	3579876	+	103	1.10E-129	93	147
118668	118715	+	8	3580239	3580285	+	39	1.10E-129	96	47
96287	96341	-	8	3580284	3580337	+	50	2.90E-130	98	54
118780	118834	+	8	3580284	3580337	+	50	1.10E-129	98	54
96082	96257	-	8	3580384	3580557	+	104	2.90E-130	90	176
118864	119039	+	8	3580384	3580557	+	104	1.10E-129	90	176
45239	45298	+	8	3587502	3587561	+	31	4.30E-06	87	63
70732	70938	-	8	3777982	3778187	+	182	1.40E-95	97	206
70347	70732	-	8	3778188	3778570	+	357	7.20E-200	98	385
51633	51703	+	8	3971206	3971275	+	58	2.40E-95	96	70
91945	92235	+	8	3971294	3971587	+	143	2.40E-95	87	295
72596	72656	+	8	5811858	5811917	+	56	1.60E-20	98	60
22365	22805	-	8	5838689	5839136	+	352	1.70E-190	95	448

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
61453	61636	+	8	6188421	6188601	+	155	1.70E-79	96	183
84483	84635	-	8	7753956	7754104	+	128	2.00E-63	96	152
21412	21492	+	8	7813271	7813351	+	65	2.80E-24	95	81
93385	93486	+	8	9054748	9054848	+	101	2.50E-47	100	101
101511	101527	-	8	9223565	9223580	+	16	0	100	16
114093	114756	+	8	9236593	9237256	+	656	0	100	664
100365	101028	-	8	9236593	9237256	+	656	0	100	664
114451	114503	-	8	9236952	9237003	+	44	7.10E-52	96	52
100618	100670	+	8	9236952	9237003	+	44	0	96	52
115032	116738	+	8	9237253	9238961	+	1689	0	100	1709
100002	100089	-	8	9237253	9237339	+	83	0	99	87
98383	100002	-	8	9237340	9238961	+	1606	0	100	1622
94132	98367	-	8	9238978	9243215	+	4180	0	100	4240
116754	120989	+	8	9238978	9243215	+	4180	0	100	4240
121590	121607	+	8	9242721	9242737	+	17	0	100	17
93382	93845	-	8	9243211	9243673	+	463	0	100	463
121276	121739	+	8	9243211	9243673	+	463	0	100	463
120493	120510	+	8	9243525	9243541	+	17	0	100	17
93007	93374	-	8	9243682	9244048	+	351	0	99	367
121747	122114	+	8	9243682	9244048	+	351	0	99	367
89669	92998	-	8	9244066	9247396	+	3296	0	100	3332
122123	125418	+	8	9244066	9247362	+	3262	0	100	3298
87852	89659	-	8	9247408	9249213	+	1775	0	100	1807
125462	127269	+	8	9247408	9249213	+	1775	0	100	1807
43009	43044	-	8	9247713	9247748	+	32	5.00E-07	97	36
84416	87815	-	8	9249251	9252644	+	3350	0	100	3402
127306	130705	+	8	9249251	9252644	+	3350	0	100	3402
80912	84408	-	8	9252653	9256148	+	3484	0	100	3496
130713	134209	+	8	9252653	9256148	+	3484	0	100	3496
55866	55957	+	8	9254294	9254384	+	87	5.10E-48	99	91
80615	80904	-	8	9256157	9256445	+	289	0	100	289
134217	134506	+	8	9256157	9256445	+	289	0	100	289

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
80178	80600	-	8	9256461	9256882	+	422	0	100	422
80089	80170	-	8	9256891	9256971	+	81	0	100	81
79177	80047	-	8	9257013	9257882	+	862	0	100	870
78977	79140	-	8	9257919	9258081	+	163	0	100	163
78449	78968	-	8	9258090	9258609	+	516	0	100	520
77725	78413	-	8	9258638	9259324	+	673	0	99	689
76632	77697	-	8	9259354	9260419	+	1058	0	100	1066
129478	129495	+	8	9260108	9260124	+	17	0	100	17
76238	76528	-	8	9260522	9260811	+	286	0	100	290
75987	76222	-	8	9260827	9261060	+	231	0	100	235
75888	75970	-	8	9261078	9261159	+	82	0	100	82
74585	75875	-	8	9261173	9262461	+	1282	0	100	1290
74282	74549	-	8	9262498	9262764	+	267	0	100	267
71786	74265	-	8	9262782	9265263	+	2430	0	99	2486
71469	71750	-	8	9265300	9265580	+	281	0	100	281
69541	71371	-	8	9265679	9267508	+	1781	0	99	1833
102899	102915	-	8	9267119	9267134	+	16	1.80E-12	100	16
69009	69533	-	8	9267517	9268040	+	516	0	100	524
65618	69019	-	8	9268038	9271438	+	3328	0	99	3404
112084	112100	+	8	9268649	9268664	+	16	4.40E-28	100	16
63780	65609	-	8	9271446	9273274	+	1799	0	100	1831
63515	63772	-	8	9273283	9273539	+	257	0	100	257
63066	63507	-	8	9273549	9273989	+	441	0	100	441
115928	115944	+	8	9273783	9273798	+	16	0	100	16
62530	63058	-	8	9273998	9274525	+	524	0	100	528
126366	126412	+	8	9274027	9274072	+	46	0	100	46
61083	62522	-	8	9274534	9275972	+	1424	0	100	1440
60680	61075	-	8	9275980	9276379	+	372	0	98	400
60039	60651	-	8	9276409	9277020	+	612	0	100	612
59161	60031	-	8	9277029	9277896	+	858	0	100	870
58807	59130	-	8	9277928	9278250	+	319	0	100	323
103242	103258	+	8	9310484	9310499	+	16	7.10E-11	100	16

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
112551	112567	-	8	9325771	9325786	+	16	1.80E-11	100	16
20060	20359	+	8	9632198	9632494	+	204	1.20E-104	92	300
32674	32734	+	8	10366382	10366441	+	53	4.70E-15	97	61
77337	77518	-	8	10791044	10791225	+	154	6.50E-79	96	182
68751	69303	-	8	11015945	11016496	+	457	1.90E-259	96	553
4570	4609	+	8	11443579	11443618	+	36	5.50E-07	98	40
109601	109618	-	8	11553451	11553467	+	17	1.40E-99	100	17
107802	108017	-	8	11580915	11581130	+	196	1.40E-99	98	216
45167	45202	-	8	11959618	11959653	+	32	2.40E-09	97	36
21639	21839	-	8	12037958	12038158	+	193	3.00E-98	99	201
132956	132976	-	8	12191005	12191025	+	17	1.10E-221	95	21
132956	132976	-	8	12196827	12196847	+	17	1.10E-221	95	21
111036	111492	-	8	12265553	12266003	+	402	1.10E-221	97	458
100862	100878	-	8	12293051	12293066	+	16	1.10E-221	100	16
106225	106241	-	8	12297165	12297180	+	16	1.10E-221	100	16
45800	45860	-	8	12371846	12371906	+	41	8.90E-10	92	61
21369	21539	+	8	14031037	14031207	+	99	2.50E-44	89	171
46676	46718	+	8	14603467	14603509	+	35	5.20E-08	95	43
50177	50385	-	8	14668420	14668627	+	164	7.20E-85	95	208
23609	23822	-	8	14983304	14983520	+	187	8.70E-91	96	219
17600	17654	-	8	15638620	15638674	+	31	1.50E-13	89	55
17600	17654	-	8	15640611	15640665	+	31	1.50E-13	89	55
51800	52056	-	8	16395631	16395888	+	218	2.20E-281	96	258
51709	51791	-	8	16395891	16395972	+	66	2.20E-281	95	82
51395	51707	-	8	16395985	16396295	+	249	2.20E-281	95	313
25848	25896	-	8	16422134	16422181	+	29	0.00018	90	49
77252	77417	+	8	17080617	17080780	+	121	3.00E-59	93	165
81980	82126	-	8	17080779	17080919	+	90	8.90E-41	90	146
53438	53520	+	8	17477777	17477855	+	55	6.40E-20	92	83
6642	6719	-	8	17700971	17701048	+	70	2.50E-24	97	78
38830	38884	-	8	19062401	19062455	+	31	9.90E-49	89	55
38696	38783	-	8	19062466	19062553	+	61	9.90E-49	92	89

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
38619	38672	-	8	19062553	19062606	+	42	9.90E-49	94	54
88566	88623	+	8	19343708	19343764	+	49	2.40E-16	96	57
9331	9457	+	8	19759824	19759950	+	44	4.40E-18	84	128
9465	9505	+	8	19759948	19759988	+	29	4.40E-18	93	41
81808	82008	+	8	19935466	19935665	+	128	2.00E-63	91	200
74969	75036	-	8	20745459	20745525	+	67	4.50E-27	100	67
7513	7582	+	8	20882941	20883010	+	70	2.00E-83	100	70
7592	7700	+	8	20883019	20883127	+	109	2.00E-83	100	109
28667	28790	-	8	20899258	20899377	+	73	1.50E-28	90	125
6517	6615	-	8	21137054	21137157	+	80	3.40E-33	94	104
80700	80795	-	8	21374112	21374212	+	61	1.70E-23	90	101
40729	40830	+	8	22039277	22039378	+	78	4.50E-29	94	102
2941	3179	-	8	22189714	22189952	+	239	0	100	239
1	37	+	8	22192863	22192899	+	29	0.00022	95	37
80615	80904	+	8	22192910	22193198	+	289	0	100	289
134217	134506	-	8	22192910	22193198	+	289	0	100	289
80912	82640	+	8	22193207	22194934	+	1720	0	100	1728
132481	134209	-	8	22193207	22194934	+	1720	0	100	1728
114317	114332	-	8	22198681	22198695	+	15	0	100	15
33788	33959	+	8	22427414	22427586	+	77	6.40E-31	86	177
2941	2997	+	8	23466306	23466362	+	38	1.30E-13	91	58
23476	24034	-	8	23509473	23510031	+	559	7.6e-316	100	559
52762	52921	-	8	25291975	25292132	+	123	1.90E-60	94	159
59647	59706	+	8	25292291	25292349	+	59	2.60E-22	100	59
37236	37438	+	8	25292351	25292553	+	179	7.00E-87	97	203
7692	7731	-	8	26337286	26337325	+	36	2.90E-07	98	40
80966	81043	-	9	445561	445636	+	53	4.60E-29	92	77
84416	84558	-	9	670165	670306	+	107	6.60E-51	94	143
126629	126645	-	9	941596	941611	+	16	1.80E-27	100	16
105320	105434	-	9	965459	965572	+	75	1.50E-28	91	115
88210	88535	-	9	965583	965907	+	246	9.90E-134	94	326



Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
126586	126911	+	9	965583	965907	+	246	3.00E-129	94	326
87851	87968	+	9	965946	966062	+	97	6.00E-45	96	117
127153	127270	-	9	965946	966062	+	97	9.00E-42	96	117
118625	118650	-	9	982138	982163	+	18	3.40E-41	92	26
124998	125017	-	9	989733	989751	+	19	9.00E-42	100	19
125323	125339	-	9	1018442	1018457	+	16	4.70E-40	100	16
68704	69533	+	9	2493742	2494570	+	813	0	100	829
69541	71207	+	9	2494579	2496244	+	1609	0	99	1669
38801	38890	+	9	3742335	3742424	+	66	7.60E-23	93	90
5673	5857	+	9	3775667	3775850	+	137	1.00E-76	94	185
5876	5916	+	9	3775852	3775892	+	37	1.00E-76	98	41
74471	74547	+	9	4036291	4036366	+	64	0	96	76
74585	74807	+	9	4036405	4036624	+	214	0	99	222
74765	75851	+	9	4036619	4037704	+	1000	0	98	1088
33259	33304	+	9	4364162	4364208	+	43	0	98	47
33399	33577	+	9	4364288	4364466	+	155	0	97	179
33618	34184	+	9	4364508	4365075	+	480	0	96	568
34194	34665	+	9	4365083	4365554	+	404	0	96	472
34673	35155	+	9	4365552	4366032	+	350	0	93	486
56657	56710	+	9	4397778	4397830	+	53	9.90E-19	100	53
35764	35937	-	9	4638695	4638867	+	170	0	99	174
34972	35761	-	9	4638861	4639650	+	691	0	97	791
34853	34936	-	9	4639674	4639757	+	84	0	100	84
27607	27658	-	9	4639752	4639803	+	44	0	96	52
35056	35121	+	9	4675961	4676026	+	34	1.30E-13	88	66
35180	35237	+	9	4676085	4676142	+	30	1.30E-13	88	58
26005	26044	-	9	4677744	4677783	+	32	0	95	40
25856	25931	-	9	4677845	4677921	+	34	0	86	78
25677	25843	-	9	4677923	4678091	+	87	0	88	171
19380	19446	+	9	5060018	5060084	+	59	2.10E-100	97	67
19463	19597	+	9	5060088	5060222	+	107	2.10E-100	95	135
19599	19680	+	9	5060442	5060523	+	70	2.10E-100	96	82

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
22381	22487	-	9	5501008	5501115	+	68	3.00E-24	91	108
6152	6307	+	9	5599623	5599779	+	109	2.00E-47	92	157
20346	20464	-	9	6351772	6351890	+	67	2.80E-25	89	119
84594	84966	+	9	6599376	6599747	+	306	1.70E-169	95	374
130155	130527	-	9	6599376	6599747	+	306	3.90E-166	95	374
101567	101584	-	9	6623953	6623969	+	17	3.90E-166	100	17
107830	107846	-	9	6678742	6678757	+	16	1.20E-162	100	16
115358	115377	-	9	6695133	6695152	+	16	6.10E-164	95	20
19380	19527	+	9	6793370	6793517	+	112	1.90E-103	94	148
19528	19680	+	9	6793524	6793677	+	110	1.90E-103	93	154
18812	18842	-	9	6846544	6846574	+	31	9.20E-05	100	31
9879	10007	+	9	6877447	6877575	+	60	1.80E-19	86	132
19380	19680	+	9	7337715	7338018	+	224	2.60E-116	93	304
28273	28474	+	9	7732293	7732498	+	151	1.50E-71	93	207
60682	60765	+	9	7829738	7829820	+	83	1.30E-36	100	83
51772	51821	-	9	8067664	8067712	+	49	2.40E-16	100	49
84504	84842	+	9	9917818	9918155	+	319	3.10E-177	99	339
130279	130617	-	9	9917818	9918155	+	319	9.40E-172	99	339
130229	130278	-	9	9918107	9918155	+	45	3.80E-11	98	49
100287	100303	-	9	9982321	9982336	+	16	9.40E-172	100	16
87342	87550	+	9	10798934	10799140	+	180	2.10E-94	97	208
57470	57697	+	9	10902656	10902881	+	170	1.90E-88	93	230
19380	19661	-	9	11531119	11531401	+	200	3.20E-101	93	284
60114	60536	+	9	11610554	11610975	+	422	1.30E-238	100	422
115617	115632	+	9	11944692	11944706	+	15	0	100	15
80912	81952	-	9	11944700	11945738	+	974	0	98	1042
133169	134209	+	9	11944700	11945738	+	974	0	98	1042
80615	80903	-	9	11945748	11946035	+	284	0	100	288
134218	134506	+	9	11945748	11946035	+	284	0	100	288
80178	80600	-	9	11946050	11946468	+	394	0	98	422
80089	80170	-	9	11946478	11946558	+	81	0	100	81
79177	80047	-	9	11946599	11947468	+	824	0	99	872

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
78981	79140	-	9	11947503	11947661	+	151	0	99	159
78542	78968	-	9	11947675	11948101	+	399	0	98	427
78449	78532	-	9	11948099	11948181	+	83	0	100	83
77725	78413	-	9	11948209	11948895	+	661	0	99	689
76632	77697	-	9	11948925	11949990	+	1022	0	99	1066
19052	19144	+	9	12024164	12024251	+	49	1.90E-13	88	93
19380	19442	+	9	12296588	12296650	+	47	7.30E-14	94	63
19380	19672	+	9	12296659	12296951	+	233	4.50E-123	95	293
19380	19442	+	9	12651335	12651397	+	47	3.80E-11	94	63
19380	19672	+	9	12651406	12651698	+	233	5.50E-120	95	293
98406	98566	-	9	12735437	12735596	+	109	4.30E-52	92	161
19380	19442	+	9	12894850	12894912	+	47	1.30E-12	94	63
19380	19672	+	9	12894921	12895213	+	233	4.80E-120	95	293
108527	108544	+	9	14424094	14424110	+	17	0	100	17
111624	111639	+	9	14429221	14429235	+	15	0	100	15
126287	126303	+	9	14446053	14446068	+	16	0	100	16
120973	120988	+	9	14448490	14448504	+	15	0	100	15
100819	100834	+	9	14453527	14453541	+	15	0	100	15
93197	93338	-	9	14457730	14457871	+	94	0	92	142
121783	121924	+	9	14457730	14457871	+	94	0	92	142
106101	106116	+	9	14463602	14463616	+	15	0	100	15
110617	110632	+	9	14490710	14490724	+	15	0	100	15
133039	133054	+	9	14497025	14497039	+	15	9.60E-199	100	15
130535	130550	+	9	14497702	14497716	+	15	0	100	15
133039	133054	+	9	14500283	14500297	+	15	7.60E-198	100	15
130535	130550	+	9	14500930	14500944	+	15	0	100	15
80912	83055	-	9	14504285	14506427	+	2143	0	100	2143
132066	134209	+	9	14504285	14506427	+	2143	0	100	2143
55807	55866	+	9	14504378	14504437	+	48	2.90E-56	95	60
55866	55957	+	9	14504573	14504663	+	87	2.90E-56	99	91
80615	80904	-	9	14506436	14506724	+	289	0	100	289
134217	134506	+	9	14506436	14506724	+	289	0	100	289

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
80178	80600	-	9	14506740	14507161	+	418	0	100	422
80089	80170	-	9	14507170	14507250	+	81	0	100	81
79177	80047	-	9	14507291	14508160	+	862	0	100	870
78977	79140	-	9	14508198	14508360	+	163	0	100	163
78449	78968	-	9	14508370	14508889	+	516	0	100	520
77725	78413	-	9	14508920	14509606	+	673	0	99	689
77613	77697	-	9	14509635	14509718	+	84	0	100	84
90770	90851	-	9	15150752	15150832	+	61	1.70E-23	94	81
39590	39677	-	9	15832652	15832739	+	77	1.60E-29	97	89
7858	8027	+	9	16300294	16300463	+	158	8.20E-77	98	170
53431	53514	-	9	16351991	16352073	+	71	2.40E-76	96	83
53203	53317	-	9	16352174	16352287	+	98	2.40E-76	96	114
46564	46831	+	9	16672790	16673049	+	83	2.10E-34	83	271
83855	83915	+	9	16967358	16967417	+	52	3.90E-18	97	60
40243	40628	-	9	17163326	17163711	+	374	2.00E-203	99	386
68975	69084	+	9	17855155	17855263	+	62	4.30E-24	89	110
46632	46834	+	9	18336123	18336321	+	135	1.50E-62	92	203
18190	18240	-	9	18364877	18364929	+	37	6.30E-11	92	53
43192	43266	-	9	18454399	18454473	+	67	3.30E-23	97	75
26907	26985	+	9	18566194	18566277	-	28	4.70E-06	83	84
22896	22952	-	9	18577552	18577608	-	53	4.40E-16	98	57
35427	35468	+	9	18577608	18577649	-	34	3.10E-09	95	42
120435	120451	+	9	18691858	18691873	-	16	3.30E-176	100	16
107931	108328	+	9	18718839	18719236	-	323	3.30E-176	95	399
104847	104863	+	9	18734858	18734873	-	16	3.30E-176	100	16
889	966	-	9	19974831	19974908	+	43	2.20E-14	89	79
76851	76952	-	9	20197584	20197684	+	101	2.50E-47	100	101
74784	75002	-	9	20293506	20293721	+	162	1.10E-83	94	218
7180	7233	-	9	20994539	20994591	+	34	4.70E-15	91	54
7115	7176	-	9	20994608	20994669	+	34	4.70E-15	89	62
77252	77417	+	9	21163545	21163708	+	125	1.20E-61	94	165
8099	8137	-	9	21178607	21178645	+	31	1.90E-14	95	39

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
7921	8034	-	9	21178657	21178774	+	35	1.90E-14	82	119
61559	62160	+	9	21929739	21930339	+	601	0	100	601
59271	59404	+	10	852783	852911	+	73	1.20E-30	89	133
39895	39934	-	10	1214425	1214464	+	36	1.70E-07	98	40
40120	40228	+	10	1214463	1214570	+	77	2.40E-29	93	109
109596	109612	-	10	4309372	4309387	-	16	3.40E-182	100	16
1743	1779	-	10	4316083	4316119	+	37	1.80E-11	100	37
110589	110607	-	10	4342269	4342286	-	18	3.40E-182	100	18
112421	112438	-	10	4369534	4369550	-	17	3.40E-182	100	17
117520	117562	-	10	4381555	4381596	-	42	3.40E-182	100	42
123337	123366	-	10	4382082	4382110	-	25	3.40E-182	97	29
88997	89402	+	10	4382214	4382617	-	300	3.50E-179	93	408
125719	126124	-	10	4382214	4382617	-	300	3.40E-182	93	408
127511	127527	-	10	4406001	4406016	-	16	3.40E-182	100	16
15386	15447	+	10	4483251	4483313	+	39	2.60E-09	90	63
4215	4315	-	10	4980283	4980384	+	56	5.30E-44	88	104
4113	4195	-	10	4980384	4980472	+	61	5.30E-44	92	89
19264	19304	-	10	5189589	5189629	+	29	2.60E-05	93	41
83162	83242	-	10	5483046	5483125	+	64	2.80E-25	95	80
92023	92131	+	10	5483125	5483232	+	80	8.10E-35	94	108
2277	2316	+	10	5841411	5841450	-	36	1.50E-07	98	40
1832	2423	-	10	5841525	5842117	-	534	0	97	594
2430	2714	-	10	5842118	5842402	-	265	0	98	285
2568	2601	-	10	5842449	5842482	-	34	5.2e-311	100	34
87021	87192	+	10	7191234	7191404	+	155	1.60E-79	98	171
10102	10190	-	10	7658329	7658417	+	85	1.20E-35	99	89
46570	46710	+	10	7658928	7659067	+	125	4.90E-58	97	141
45530	45572	-	10	7660160	7660202	+	43	1.90E-11	100	43
117341	117357	+	10	7764537	7764552	+	16	1.50E-51	100	16
115509	115525	-	10	7783464	7783479	+	16	1.60E-142	100	16
110013	110288	-	10	7798563	7798837	+	267	7.70E-144	99	275

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
110232	110249	+	10	7810786	7810802	+	17	1.20E-53	100	17
82366	82580	+	10	7814271	7814484	+	214	1.20E-114	100	214
132541	132755	-	10	7814271	7814484	+	214	9.50E-110	100	214
82265	82378	-	10	7814893	7815005	+	113	1.80E-54	100	113
132743	132856	+	10	7814893	7815005	+	113	1.20E-53	100	113
130299	130315	-	10	7825790	7825805	+	16	9.50E-110	100	16
39086	39141	-	10	8523287	8523340	-	36	4.60E-08	91	56
81712	81804	+	10	8545428	8545519	-	80	8.10E-35	97	92
73069	73241	+	10	9619916	9620091	+	121	3.00E-59	92	177
114243	114259	+	10	9988884	9988899	+	16	1.70E-132	100	16
90134	90372	-	10	10078931	10079169	+	187	2.60E-136	95	239
124749	124987	+	10	10078931	10079169	+	187	3.90E-133	95	239
90012	90122	-	10	10079171	10079281	+	83	2.60E-136	94	111
124999	125109	+	10	10079171	10079281	+	83	3.90E-133	94	111
63546	63744	+	10	10175106	10175301	-	143	2.30E-72	93	199
43009	43044	-	10	10289191	10289226	+	32	4.30E-12	97	36
1	37	-	10	10297935	10297971	+	29	4.30E-12	95	37
1	2932	+	10	10297942	10300873	+	2892	0	100	2932
2941	3535	+	10	10300882	10301476	+	591	0	100	595
3553	4316	+	10	10301494	10302257	+	748	0	99	764
4353	6075	+	10	10302294	10304017	+	1700	0	100	1724
6107	6337	+	10	10304049	10304278	+	223	0	99	231
6346	7480	+	10	10304287	10305421	+	1115	0	100	1135
7513	7582	+	10	10305454	10305523	+	70	0	100	70
7592	8037	+	10	10305532	10305977	+	442	0	100	446
44496	44524	-	10	10305769	10305797	+	29	6.00E-05	100	29
8093	8203	+	10	10306033	10306143	+	111	0	100	111
8212	8513	+	10	10306152	10306453	+	302	0	100	302
8623	11432	+	10	10306494	10309303	+	2771	0	100	2811
11487	13987	+	10	10309358	10311856	+	2439	0	99	2503
36195	36238	+	10	10310655	10310698	+	36	0	95	44
13997	14863	+	10	10311866	10312730	+	839	0	99	867

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
14864	15200	+	10	10312731	10313066	+	325	0	99	337
15261	15491	+	10	10313127	10313356	+	223	0	99	231
15500	15902	+	10	10313365	10313767	+	403	0	100	403
15980	16670	+	10	10313845	10314539	+	675	0	99	695
16679	17091	+	10	10314548	10314962	+	407	0	100	415
16880	16927	-	10	10314749	10314798	+	34	1.60E-15	92	50
17118	17331	+	10	10314989	10315202	+	210	0	100	214
17373	17811	+	10	10315236	10315676	+	425	0	99	441
17779	18625	+	10	10315676	10316522	+	835	0	100	847
18642	19675	+	10	10316538	10317571	+	1026	0	100	1034
19706	20614	+	10	10317568	10318476	+	893	0	100	909
20624	27108	+	10	10318486	10324971	+	6426	0	100	6486
27117	27248	+	10	10324980	10325111	+	132	0	100	132
27257	27341	+	10	10325120	10325204	+	85	0	100	85
27387	29137	+	10	10325250	10327000	+	1724	0	100	1752
29149	29503	+	10	10327010	10327364	+	351	0	100	355
29541	31267	+	10	10327402	10329128	+	1711	0	100	1727
31276	31505	+	10	10329137	10329366	+	230	0	100	230
31514	31881	+	10	10329375	10329742	+	364	0	100	368
31891	32013	+	10	10329742	10329864	+	123	0	100	123
32022	32168	+	10	10329873	10330019	+	147	0	100	147
32122	32640	+	10	10330018	10330536	+	519	0	100	519
32674	33364	+	10	10330570	10331259	+	683	0	100	691
33399	33577	+	10	10331294	10331472	+	171	0	99	179
33618	34184	+	10	10331513	10332080	+	552	0	99	568
34194	35935	+	10	10332090	10333831	+	1710	0	100	1742
35972	36531	+	10	10333868	10334427	+	556	0	100	560
36541	36607	+	10	10334437	10334503	+	67	0	100	67
36616	41364	+	10	10334512	10339260	+	4679	0	100	4751
41374	41491	+	10	10339270	10339387	+	118	0	100	118
41535	42468	+	10	10339431	10340364	+	920	0	100	936
42477	43683	+	10	10340373	10341571	+	1157	0	99	1209

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
43700	43898	+	10	10341588	10341786	+	199	0	100	199
43909	44411	+	10	10341797	10342297	+	491	0	99	503
44420	44883	+	10	10342306	10342769	+	457	0	100	465
7829	7857	-	10	10342382	10342410	+	29	1.60E-15	100	29
44892	45244	+	10	10342778	10343130	+	349	0	100	353
45279	45574	+	10	10343128	10343423	+	296	0	100	296
45613	45946	+	10	10343462	10343795	+	330	0	100	334
45968	46164	+	10	10343817	10344008	+	177	0	97	197
46193	46276	+	10	10344035	10344118	+	84	0	100	84
46286	46495	+	10	10344128	10344337	+	210	0	100	210
46504	49273	+	10	10344346	10347118	+	2737	0	100	2773
49286	49502	+	10	10347129	10347345	+	217	0	100	217
49511	50000	+	10	10347353	10347843	+	483	0	100	491
43009	43044	+	10	10387156	10387191	+	32	0	97	36
114340	114356	+	10	10409911	10409926	+	16	0	100	16
97405	97618	-	10	10458684	10458901	+	194	0	97	218
117503	117716	+	10	10458684	10458901	+	194	0	97	218
93837	97527	-	10	10458897	10462588	+	3634	0	100	3694
117594	121284	+	10	10458897	10462588	+	3634	0	100	3694
121590	121607	+	10	10461799	10461815	+	17	2.60E-99	100	17
93382	93837	-	10	10462589	10463043	+	447	0	100	455
121284	121739	+	10	10462589	10463043	+	447	0	100	455
120493	120510	+	10	10462895	10462911	+	17	0	100	17
93007	93374	-	10	10463052	10463418	+	347	0	99	367
121747	122114	+	10	10463052	10463418	+	347	0	99	367
92195	92998	-	10	10463434	10464236	+	795	0	100	803
122123	122926	+	10	10463434	10464236	+	795	0	100	803
89669	92184	-	10	10464234	10466750	+	2482	0	100	2518
122937	125418	+	10	10464234	10466716	+	2448	0	100	2484
87852	89658	-	10	10466761	10468565	+	1774	0	100	1806
125463	127269	+	10	10466761	10468565	+	1774	0	100	1806
84416	87815	-	10	10468603	10471994	+	3314	0	99	3402



Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
127306	130705	+	10	10468603	10471994	+	3314	0	99	3402
128784	128814	-	10	10470076	10470105	+	30	2.00E-05	100	30
80912	84408	-	10	10472003	10475498	+	3460	0	100	3496
130713	134209	+	10	10472003	10475498	+	3460	0	100	3496
55866	55957	+	10	10473644	10473734	+	87	0	99	91
80615	80904	-	10	10475507	10475795	+	289	0	100	289
134217	134506	+	10	10475507	10475795	+	289	0	100	289
104212	104228	+	10	10481904	10481919	+	16	2.40E-52	100	16
126422	126438	-	10	10490066	10490081	+	16	2.00E-05	100	16
111208	111226	+	10	10518768	10518785	+	18	2.40E-52	100	18
120912	120931	-	10	10523150	10523168	+	19	2.00E-05	100	19
50002	50466	+	10	10525718	10526181	+	456	0	100	464
50474	53330	+	10	10526189	10529046	+	2814	0	100	2858
53424	53871	+	10	10529140	10529586	+	417	0	98	449
53859	53993	+	10	10529589	10529722	+	134	0	100	134
54010	55538	+	10	10529740	10531267	+	1512	0	100	1528
55599	55666	+	10	10531329	10531395	+	63	0	99	67
55672	57010	+	10	10531402	10532741	+	1312	0	99	1340
82902	82962	-	10	10531537	10531595	+	48	0	95	60
132159	132219	+	10	10531537	10531595	+	48	0	95	60
82676	82767	-	10	10531596	10531686	+	83	0	98	91
132354	132445	+	10	10531596	10531686	+	83	0	98	91
57099	57875	+	10	10532818	10533597	+	737	0	99	781
57883	58265	+	10	10533606	10533987	+	366	0	99	382
58314	58674	+	10	10534037	10534398	+	354	0	99	362
58689	59130	+	10	10534415	10534855	+	433	0	100	441
59161	59410	+	10	10534887	10535135	+	249	0	100	249
59468	60031	+	10	10535193	10535754	+	559	0	100	563
60039	60639	+	10	10535763	10536362	+	592	0	100	600
60680	61075	+	10	10536404	10536803	+	376	0	99	400
61162	61794	+	10	10536891	10537521	+	624	0	100	632
61794	63058	+	10	10537522	10538785	+	1256	0	100	1264

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
126366	126412	-	10	10538711	10538756	+	46	0	100	46
63066	63507	+	10	10538794	10539234	+	437	0	100	441
115928	115944	-	10	10538985	10539000	+	16	0	100	16
63515	63772	+	10	10539243	10539499	+	257	0	100	257
63780	65609	+	10	10539508	10541336	+	1815	0	100	1831
65618	69533	+	10	10541346	10545260	+	3818	0	99	3918
112084	112100	-	10	10544120	10544135	+	16	0	100	16
69541	71371	+	10	10545269	10547098	+	1777	0	99	1833
102899	102915	+	10	10545643	10545658	+	16	1.10E-59	100	16
71468	71749	+	10	10547196	10547475	+	277	0	100	281
71784	74265	+	10	10547511	10549995	+	2432	0	99	2488
74282	74547	+	10	10550013	10550277	+	265	0	100	265
74585	75875	+	10	10550316	10551605	+	1282	0	100	1290
75987	76222	+	10	10551716	10551950	+	231	0	100	235
76238	76511	+	10	10551966	10552238	+	269	0	100	273
76597	76663	+	10	10552323	10552388	+	66	0	100	66
76663	77696	+	10	10552383	10553416	+	1026	0	100	1034
129478	129495	-	10	10552647	10552663	+	17	0	100	17
77724	78413	+	10	10553446	10554133	+	678	0	100	690
78449	78968	+	10	10554163	10554682	+	512	0	100	520
78977	79140	+	10	10554691	10554853	+	155	0	99	163
79177	79509	+	10	10554890	10555221	+	324	0	99	332
79567	80050	+	10	10555280	10555762	+	483	0	100	483
80088	80170	+	10	10555801	10555882	+	82	0	100	82
80178	80600	+	10	10555891	10556313	+	419	0	100	423
80615	80904	+	10	10556330	10556618	+	289	0	100	289
134217	134506	-	10	10556330	10556618	+	289	0	100	289
80912	84408	+	10	10556627	10560121	+	3432	0	100	3496
130713	134209	-	10	10556627	10560121	+	3432	0	100	3496
55866	55957	-	10	10558391	10558481	+	87	7.30E-66	99	91
55807	55866	-	10	10558617	10558676	+	48	7.30E-66	95	60
84416	87815	+	10	10560130	10563527	+	3319	0	99	3407

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
127306	130705	-	10	10560130	10563527	+	3319	0	99	3407
87851	89655	+	10	10563564	10565366	+	1784	0	100	1804
125466	127270	-	10	10563564	10565366	+	1784	0	100	1804
89702	92558	+	10	10565412	10568268	+	2803	0	100	2859
122563	125419	-	10	10565412	10568268	+	2803	0	100	2859
92572	92998	+	10	10568265	10568690	+	414	0	99	426
122123	122549	-	10	10568265	10568690	+	414	0	99	426
93007	93374	+	10	10568702	10569068	+	351	0	99	367
121747	122114	-	10	10568702	10569068	+	351	0	99	367
93382	98367	+	10	10569081	10574068	+	4898	0	100	4990
116754	121739	-	10	10569081	10574068	+	4898	0	100	4990
98383	100002	+	10	10574085	10575706	+	1606	0	100	1622
114302	116738	-	10	10574085	10576524	+	2420	0	100	2440
100002	101106	+	10	10575707	10576811	+	1093	0	100	1105
100618	100670	-	10	10576324	10576375	+	44	0	96	52
114451	114503	+	10	10576324	10576375	+	44	1.50E-11	96	52
114015	114240	-	10	10576587	10576811	+	217	0	99	225
113502	114007	-	10	10576820	10577324	+	505	0	100	505
101114	101393	+	10	10576820	10577098	+	279	0	100	279
111573	113486	-	10	10577341	10579254	+	1890	0	100	1914
107502	111564	-	10	10579264	10583331	+	4012	0	100	4068
107439	107486	-	10	10583348	10583394	+	47	0	100	47
106397	107431	-	10	10583407	10584440	+	1030	0	100	1034
104191	106389	-	10	10584449	10586650	+	2136	0	99	2204
105762	105794	+	10	10585044	10585075	+	32	0	100	32
100865	100881	-	10	10586554	10586569	+	16	0	100	16
114240	114256	+	10	10586554	10586569	+	16	0	100	16
103904	104131	-	10	10586712	10586938	+	227	0	100	227
103196	103896	-	10	10586948	10587648	+	689	0	100	701
103055	103188	-	10	10587657	10587789	+	133	0	100	133
102137	103047	-	10	10587798	10588707	+	902	0	100	910
101699	102129	-	10	10588716	10589145	+	419	0	99	431

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
101849	101869	+	10	10588976	10588995	+	20	0	100	20
101500	101690	-	10	10589155	10589344	+	186	0	99	190
101279	101439	-	10	10589406	10589565	+	160	0	100	160
113728	113842	+	10	10589452	10589565	+	114	0	100	114
110566	110583	-	10	10603436	10603452	+	17	0	100	17
51247	51526	+	10	11458019	11458295	+	227	2.10E-122	95	279
28486	28603	-	10	11563244	11563361	+	102	1.30E-74	97	118
28418	28485	-	10	11563709	11563776	+	60	1.30E-74	97	68
93085	93247	+	10	11643416	11643577	+	138	2.20E-69	96	162
121874	122036	-	10	11643416	11643577	+	138	4.50E-116	96	162
109367	109384	-	10	11682861	11682877	+	17	1.70E-65	100	17
110816	111004	-	10	11682951	11683140	+	81	4.50E-116	85	197
110745	110787	-	10	11683167	11683208	+	38	4.50E-116	98	42
103667	103683	-	10	11712171	11712186	+	16	4.50E-116	100	16
109827	109843	-	10	11724863	11724878	+	16	3.50E-115	100	16
90057	90138	+	10	12599497	12599578	-	51	1.50E-17	90	83
24126	24251	+	10	13460493	13460617	+	110	3.30E-58	97	126
40989	41024	+	10	13521758	13521793	+	36	3.30E-58	100	36
85606	85674	+	10	13698148	13698215	+	68	1.10E-27	100	68
24126	24251	+	10	13703588	13703712	+	102	2.50E-71	95	126
42085	42148	+	10	13832090	13832153	+	36	2.50E-71	89	64
42169	42198	+	10	13832246	13832275	+	30	6.70E-64	100	30
42169	42242	+	10	13832552	13832626	+	43	2.50E-71	89	75
3347	3445	-	10	14029109	14029207	+	99	7.50E-43	100	99
50597	50692	+	10	14204181	14204277	+	73	2.80E-43	94	97
66644	66745	-	10	14204441	14204541	+	93	1.50E-42	98	101
77415	77569	-	10	14206196	14206350	+	87	5.50E-39	89	159
24126	24251	-	10	14691690	14691814	+	102	3.90E-45	95	126
76341	76527	-	10	14876875	14877060	+	170	1.90E-88	98	186
88790	88862	+	10	15555018	15555089	+	68	1.10E-27	99	72
17864	18378	+	10	15775898	15776412	+	483	2.30E-268	98	515
21308	21383	-	10	15786560	15786634	+	48	2.40E-14	91	76

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
71879	72218	-	10	15963166	15963510	+	192	1.50E-101	89	348
1739	1784	-	10	15973520	15973565	+	46	1.50E-12	100	46
70422	70490	+	10	16150197	16150264	+	68	1.10E-27	100	68
33263	33335	-	10	16624196	16624268	-	54	8.20E-16	93	74
121163	121179	+	10	16928798	16928813	+	16	8.10E-105	100	16
100159	100175	+	10	16957343	16957358	+	16	2.90E-106	100	16
92749	92963	-	10	16988801	16989014	+	206	6.80E-110	99	214
122158	122372	+	10	16988801	16989014	+	206	2.90E-106	99	214
56292	56410	+	10	17020993	17021108	+	78	1.30E-33	92	118
44040	44093	-	10	18127919	18127972	-	46	1.80E-24	96	54
44099	44141	-	10	18128220	18128261	-	39	1.80E-24	98	43
54660	54799	+	10	18586124	18586260	-	111	2.70E-53	95	139
10505	10777	-	10	18686983	18687253	+	202	6.00E-105	93	274
49511	50000	+	10	19955884	19956374	-	487	0	100	491
49286	49502	+	10	19956383	19956599	-	217	0	100	217
46504	49273	+	10	19956611	19959382	-	2752	0	100	2772
46286	46495	+	10	19959391	19959600	-	206	0	100	210
46193	46276	+	10	19959610	19959693	-	84	0	100	84
45968	46164	+	10	19959722	19959918	-	197	0	100	197
45613	45946	+	10	19959940	19960273	-	330	0	100	334
44892	45574	+	10	19960312	19960994	-	683	0	100	683
44420	44883	+	10	19961003	19961466	-	453	0	99	465
43909	44411	+	10	19961475	19961975	-	495	0	100	503
43700	43898	+	10	19961986	19962184	-	199	0	100	199
42477	43683	+	10	19962201	19963399	-	1157	0	99	1209
41535	42468	+	10	19963407	19964340	-	920	0	100	936
41374	41491	+	10	19964384	19964501	-	118	0	100	118
36616	41364	+	10	19964511	19969259	-	4687	0	100	4751
36541	36607	+	10	19969268	19969334	-	67	0	100	67
35972	36531	+	10	19969344	19969903	-	556	0	100	560
34194	35936	+	10	19969939	19971681	-	1735	0	100	1743
33618	34184	+	10	19971691	19972258	-	556	0	99	568

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
33399	33577	+	10	19972299	19972477	-	175	0	99	179
32674	33364	+	10	19972512	19973201	-	683	0	100	691
32512	32640	+	10	19973235	19973363	-	129	0	100	129
32022	32511	+	10	19973364	19973853	-	490	0	100	490
31514	32013	+	10	19973862	19974361	-	500	0	100	500
31276	31505	+	10	19974370	19974599	-	230	0	100	230
29541	31267	+	10	19974608	19976334	-	1723	0	100	1727
29149	29503	+	10	19976372	19976726	-	355	0	100	355
29085	29137	+	10	19976738	19976790	-	53	0	100	53
125462	125497	+	10	20122031	20122065	-	35	0	100	35
89669	92998	-	10	20122076	20125406	-	3304	0	100	3332
122123	125418	+	10	20122110	20125406	-	3270	0	100	3298
93007	93374	-	10	20125416	20125782	-	363	0	100	367
121747	122114	+	10	20125416	20125782	-	363	0	100	367
93382	98367	-	10	20125791	20130781	-	4941	0	100	4993
116754	121739	+	10	20125791	20130781	-	4941	0	100	4993
98383	100002	-	10	20130798	20132418	-	1606	0	100	1622
114544	116738	+	10	20130798	20132993	-	2174	0	100	2198
100002	100577	-	10	20132419	20132993	-	568	0	100	576
50474	51107	+	10	20132992	20133626	-	619	0	99	635
50002	50466	+	10	20133634	20134097	-	464	0	100	464
120912	120931	-	10	20136649	20136667	-	19	0	100	19
111208	111226	+	10	20141075	20141092	-	18	0	100	18
12536	12687	-	10	20253460	20253609	+	94	9.70E-40	90	154
214	1129	-	10	20826753	20827669	+	861	0	98	917
63	204	-	10	20827669	20827810	+	138	0	99	142
18	54	-	10	20827810	20827846	+	33	0	97	37
80615	80904	+	10	21006103	21006391	+	277	0	99	289
134217	134506	-	10	21006103	21006391	+	277	0	99	289
80914	82194	+	10	21006402	21007680	+	1192	0	98	1280
132927	134207	-	10	21006402	21007680	+	1192	0	98	1280
113356	113372	-	10	21010368	21010383	+	16	0	100	16

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
123437	123452	-	10	21051943	21051957	+	15	0	100	15
100259	100274	-	10	21059170	21059184	+	15	0	100	15
116391	116406	-	10	21072716	21072730	+	15	0	100	15
109603	109618	-	10	21078591	21078605	+	15	0	100	15
108990	109005	-	10	21079189	21079203	+	15	0	100	15
107362	107377	-	10	21083939	21083953	+	15	0	100	15
101708	101723	-	10	21084751	21084765	+	15	0	100	15
101511	101526	-	10	21096887	21096901	+	15	0	100	15
97020	97251	-	10	21394431	21394662	-	216	7.50E-116	98	232
117870	118101	+	10	21394431	21394662	-	216	1.10E-111	98	232
5857	5916	-	10	21555674	21555734	-	49	1.00E-14	95	61
8623	11168	+	10	21937037	21939581	-	2491	0	99	2547
8561	8607	+	10	21939597	21939643	-	43	0	98	47
8212	8513	+	10	21939691	21939992	-	302	0	100	302
8093	8203	+	10	21940000	21940110	-	111	0	100	111
7592	8037	+	10	21940166	21940611	-	446	0	100	446
44496	44524	-	10	21940346	21940374	-	29	2.80E-07	100	29
7513	7582	+	10	21940620	21940689	-	70	0	100	70
6854	7480	+	10	21940722	21941349	-	608	0	99	628
6529	6807	+	10	22149286	22149563	+	251	1.70E-133	97	279
22410	23309	-	10	22264916	22265816	+	865	0	99	901
40601	40668	+	10	22345713	22345780	+	45	7.80E-13	91	69
81560	83666	+	10	22441033	22443138	+	2054	0	99	2106
131455	133561	-	10	22441033	22443138	+	2054	0	99	2106
55866	55957	-	10	22442149	22442239	+	87	3.30E-56	99	91
55807	55866	-	10	22442375	22442434	+	48	3.30E-56	95	60
102051	102066	-	10	22452663	22452677	+	15	0	100	15
103680	103696	-	10	22470017	22470032	+	16	0	100	16
113983	113998	-	10	22472206	22472220	+	15	0	100	15
114565	114585	-	10	22487957	22487976	+	20	0	100	20
104676	104691	-	10	22504319	22504333	+	15	0	100	15
116391	116406	-	10	22519963	22519977	+	15	0	100	15

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
104716	104731	-	10	22524144	22524158	+	15	0	100	15
101781	101802	-	10	22530803	22530823	+	17	0	95	21
21472	21538	-	11	618773	618839	-	63	3.10E-21	99	67
9083	9146	+	11	1566392	1566455	+	48	3.90E-15	94	64
37311	37544	+	11	2061106	2061339	+	226	8.10E-116	99	234
30655	30772	-	11	2368623	2368741	+	44	1.80E-17	84	120
30549	30589	-	11	2368789	2368829	+	29	1.80E-17	93	41
87346	87436	-	11	2404328	2404415	+	58	1.00E-21	91	90
81026	81131	+	11	3496168	3496272	+	97	6.00E-45	98	105
22265	22495	-	11	4336140	4336370	+	199	4.50E-100	97	231
59400	59657	-	11	4449811	4450065	+	213	8.30E-174	96	257
59227	59401	-	11	4453810	4453983	+	120	8.30E-174	92	176
36376	36526	+	11	4620613	4620763	-	111	1.50E-48	93	151
36153	36526	+	11	4621887	4622263	-	260	5.60E-136	92	380
66893	67039	+	11	4760633	4760772	-	102	6.30E-48	92	146
23847	23993	-	11	4837106	4837253	-	132	1.90E-61	97	148
98472	98528	+	11	4843751	4843806	-	48	9.40E-16	96	56
84868	84976	-	11	4843806	4843913	-	104	4.10E-49	99	108
41127	41256	-	11	5741814	5741943	+	99	3.10E-42	94	131
25591	25671	-	11	5944519	5944598	+	34	2.50E-18	85	82
25527	25567	-	11	5944599	5944639	+	37	2.50E-18	98	41
64218	64368	+	11	6109623	6109773	+	95	9.30E-44	91	151
85040	85206	-	11	6586435	6586600	-	166	4.60E-86	100	166
21434	21533	+	11	7071878	7071976	+	48	5.50E-12	87	100
37555	37711	-	11	7133805	7133960	-	105	1.00E-49	92	157
37975	38016	+	11	7882439	7882480	-	30	0.0015	93	42
4353	4658	-	11	8515253	8515557	+	274	9.60E-157	97	306
4279	4318	-	11	8515592	8515631	+	36	9.60E-157	98	40
17163	17202	-	11	8819776	8819815	+	36	8.00E-09	98	40
45217	45296	+	11	9138468	9138549	+	54	1.10E-40	91	82
45332	45431	+	11	9138562	9138660	+	57	1.10E-40	89	101



Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
77758	78179	-	11	9284848	9285268	-	334	3.60E-186	95	422
7063	7236	-	11	9446167	9446340	+	158	1.70E-77	98	174
75283	75640	+	11	9476321	9476677	+	321	1.80E-187	97	357
48545	48789	+	11	10199044	10199288	+	221	7.70E-119	98	245
53525	53598	+	11	10214319	10214392	+	58	2.00E-31	95	74
51182	51299	-	11	10835550	10835666	-	113	1.80E-54	99	117
28728	28797	+	11	10836176	10836245	+	43	7.70E-10	90	71
21069	21227	+	11	10836405	10836563	+	151	2.30E-71	99	159
71981	72032	-	11	11874153	11874203	-	51	2.40E-98	100	51
20910	20963	-	11	11876007	11876060	-	54	4.10E-17	100	54
53188	53247	-	11	11876302	11876360	-	51	1.50E-113	97	59
95546	95755	-	11	11971370	11971579	-	155	1.50E-113	93	211
61650	61868	-	11	12031866	12032084	+	104	4.10E-49	87	220
17685	17872	+	11	12437600	12437786	-	176	6.50E-88	98	188
35693	35819	-	11	12437894	12438020	-	107	1.30E-48	96	127
5643	5769	+	11	13455428	13455553	+	48	3.90E-38	84	128
5863	5917	+	11	13455638	13455693	+	40	3.90E-38	93	56
5929	5966	+	11	13455701	13455738	+	34	3.90E-38	97	38
73673	74039	+	11	13588678	13589042	+	326	2.10E-181	97	366
70527	71017	+	11	14048766	14049251	+	466	8.00E-265	99	490
16133	16450	-	11	14052725	14053042	+	314	3.00E-169	100	318
4412	4477	+	11	14258152	14258214	-	38	5.20E-17	89	66
4360	4400	+	11	14258248	14258288	-	33	5.20E-17	95	41
38697	38815	+	11	14334185	14334302	-	56	1.60E-20	87	120
36030	36116	-	11	15289994	15290080	+	83	6.90E-33	99	87
90484	90602	+	11	15786026	15786142	+	77	5.00E-33	91	121
19419	19680	-	11	16034382	16034639	+	147	4.10E-71	89	267
29149	29218	-	11	16698544	16698614	+	36	1.50E-07	88	72
47824	47901	-	11	17144115	17144192	+	43	2.90E-11	89	79
44958	45056	-	11	17403354	17403449	+	51	2.90E-15	88	99
2049	2284	+	11	18044435	18044670	+	196	6.10E-104	96	236
8212	8256	-	11	18181909	18181953	+	41	3.50E-59	98	45

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
8083	8200	-	11	18181965	18182082	+	102	3.50E-59	97	118
70640	70732	+	11	18187236	18187327	+	88	1.40E-39	99	92
70735	70840	+	11	18187331	18187434	+	82	5.20E-36	94	106
55674	55739	-	11	18856882	18856946	+	57	0	97	65
54508	55537	-	11	18857084	18858119	+	812	0	95	1036
52998	53070	+	11	18892179	18892250	+	56	0	94	72
53147	53330	+	11	18893556	18893738	+	128	0	92	184
53424	53919	+	11	18893832	18894326	+	386	0	94	498
53918	53993	+	11	18894308	18894382	+	67	0	97	75
54021	54612	+	11	18894404	18894994	+	460	0	94	592
54607	55278	+	11	18900123	18900790	+	517	0	94	673
55285	55537	+	11	18900791	18901042	+	236	0	98	252
55600	55667	+	11	18901105	18901171	+	51	0	94	67
55674	56187	+	11	18901179	18901694	+	399	0	94	519
82902	82962	-	11	18901314	18901372	+	48	9.50E-16	95	60
65808	65907	-	11	18936710	18936807	+	51	1.60E-17	88	99
25243	25288	+	11	19412959	19413004	+	38	2.20E-06	96	46
16879	16921	+	11	19854142	19854184	+	35	1.20E-07	95	43
91555	91608	-	11	19860220	19860272	+	53	1.00E-18	100	53
32507	32628	-	11	21314809	21314929	+	50	1.30E-12	85	122
32446	32628	-	11	21324949	21325136	+	62	1.10E-20	83	190
6919	7313	-	11	21974970	21975364	+	391	2.00E-213	100	395
56353	56568	+	11	22610837	22611052	-	176	5.10E-92	95	216
7810	8037	+	11	23128111	23128339	+	201	7.60E-106	97	229
26285	26425	-	11	24394136	24394276	-	74	1.70E-43	88	142
26443	26540	-	11	24394286	24394384	-	43	1.70E-43	86	99
44892	45002	+	11	24724460	24724569	+	60	6.10E-21	88	112
66742	66887	-	11	24847179	24847322	+	122	7.70E-60	96	146
67011	67120	+	11	25256106	25256214	+	101	2.50E-47	98	109
86906	87000	+	11	27261092	27261185	-	94	3.70E-43	100	94
21472	21538	+	12	656803	656869	+	55	6.30E-20	96	67

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
21124	21170	+	12	893103	893149	+	47	2.40E-13	100	47
29290	29413	-	12	2838948	2839071	-	90	3.60E-55	93	126
29426	29487	-	12	2839076	2839135	-	46	3.60E-55	94	62
21624	21696	-	12	3001980	3002049	-	37	1.10E-08	88	73
87298	87438	+	12	3091210	3091350	-	94	1.10E-68	92	142
74339	74393	+	12	3115432	3115485	-	50	1.40E-61	98	54
74285	74351	+	12	3115484	3115549	-	62	1.10E-68	98	66
22732	22807	+	12	3115696	3115771	-	76	9.20E-29	100	76
63517	63690	+	12	4509038	4509212	-	117	1.10E-74	92	177
63442	63507	+	12	4509221	4509285	-	49	1.10E-74	94	65
61175	61331	-	12	4511718	4511876	-	91	5.90E-186	89	163
61334	61513	-	12	4511867	4512045	-	131	5.90E-186	93	179
72059	72221	-	12	4566706	4566867	-	150	5.90E-186	98	162
33409	33458	-	12	4676447	4676496	-	50	7.50E-42	100	50
24250	24427	+	12	4678416	4678593	-	166	5.10E-84	98	178
34310	34372	-	12	4679140	4679202	-	63	7.50E-42	100	63
84516	84670	-	12	4750563	4750717	-	80	9.00E-50	88	156
15420	15491	-	12	4815555	4815626	-	72	4.40E-101	100	72
15500	15647	-	12	4815635	4815782	-	136	4.40E-101	98	148
56015	56351	+	12	5123417	5123753	+	301	1.70E-166	97	337
48881	49273	-	12	5607904	5608296	-	381	0	99	393
49286	49502	-	12	5608306	5608522	-	217	0	100	217
49511	50000	-	12	5608530	5609021	-	472	0	99	492
50002	50466	-	12	5609016	5609479	-	464	0	100	464
50474	53330	-	12	5609487	5612344	-	2774	0	99	2858
53431	53871	-	12	5612446	5612885	-	402	0	98	442
53859	53993	-	12	5612888	5613021	-	134	0	100	134
54010	55539	-	12	5613040	5614568	-	1493	0	99	1529
55672	55841	-	12	5614702	5614870	-	161	0	99	169
132159	132191	-	12	5614837	5614868	-	32	5.60E-05	100	32
98924	100002	-	12	5614872	5615950	-	1039	0	99	1079
114016	116197	+	12	5614872	5617054	-	2107	0	99	2183

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
100002	101106	-	12	5615951	5617055	-	1069	0	99	1105
100618	100670	+	12	5616568	5616619	-	44	6.80E-12	96	52
114451	114503	-	12	5616568	5616619	-	44	0	96	52
101114	101135	-	12	5617064	5617084	-	21	0	100	21
101135	101439	-	12	5617074	5617378	-	297	0	99	305
113731	113961	+	12	5617099	5617328	-	226	0	100	230
101500	101690	-	12	5617439	5617628	-	186	0	99	190
101699	102129	-	12	5617638	5618069	-	405	0	98	433
101849	101869	+	12	5617789	5617808	-	20	0	100	20
102137	103047	-	12	5618078	5618987	-	874	0	99	910
103055	103188	-	12	5618996	5619128	-	129	0	99	133
103196	103896	-	12	5619137	5619836	-	680	0	99	700
103904	103997	-	12	5619845	5619937	-	93	0	100	93
104018	104131	-	12	5619934	5620046	-	113	0	100	113
104191	106389	-	12	5620107	5622308	-	2112	0	99	2204
105762	105794	+	12	5621682	5621713	-	32	0	100	32
106397	107431	-	12	5622317	5623351	-	1007	0	99	1035
107439	107488	-	12	5623363	5623411	-	49	0	100	49
107502	108552	-	12	5623427	5624475	-	1018	0	99	1050
108556	111564	-	12	5624466	5627480	-	2911	0	99	3015
111573	113486	-	12	5627489	5629403	-	1859	0	99	1915
113502	114007	-	12	5629419	5629923	-	477	0	99	505
101114	101393	+	12	5629645	5629923	-	267	0	99	279
100002	101106	+	12	5629932	5631031	-	1046	0	99	1106
114015	114240	-	12	5629932	5630152	-	205	0	98	225
114302	116738	-	12	5630215	5632650	-	2325	0	99	2441
114451	114503	+	12	5630362	5630413	-	44	6.90E-11	96	52
100618	100670	-	12	5630362	5630413	-	44	0	96	52
98383	100000	+	12	5631034	5632650	-	1544	0	99	1620
97208	98367	+	12	5632667	5633827	-	1106	0	99	1162
116754	117913	-	12	5632667	5633827	-	1106	0	99	1162
96484	97195	+	12	5633819	5634531	-	665	0	98	713

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
117926	118637	-	12	5633819	5634531	-	665	0	98	713
58233	58674	-	12	5634529	5634971	-	431	0	99	443
58693	59130	-	12	5634993	5635429	-	429	0	100	437
59161	60031	-	12	5635461	5636328	-	834	0	99	870
60039	60651	-	12	5636337	5636948	-	592	0	99	612
60680	60784	-	12	5636978	5637081	-	104	0	100	104
60824	61044	-	12	5637079	5637298	-	212	0	99	220
61083	63058	-	12	5637329	5639302	-	1935	0	99	1975
126366	126412	+	12	5639228	5639273	-	46	3.40E-12	100	46
63066	63507	-	12	5639311	5639751	-	430	0	99	442
115928	115944	+	12	5639501	5639516	-	16	3.40E-12	100	16
63515	63772	-	12	5639760	5640016	-	257	0	100	257
63780	65609	-	12	5640025	5641854	-	1764	0	99	1832
65618	69533	-	12	5641863	5645779	-	3738	0	99	3922
112084	112100	+	12	5644637	5644652	-	16	0	100	16
69541	71371	-	12	5645788	5647617	-	1741	0	99	1833
102899	102915	-	12	5646162	5646177	-	16	0	100	16
71469	71626	-	12	5647715	5647871	-	157	0	100	157
71621	71750	-	12	5651002	5651130	-	129	0	100	129
71786	73482	-	12	5651167	5652867	-	1639	0	99	1703
73482	74265	+	12	5652868	5653649	+	755	0	99	783
74282	74547	+	12	5653667	5653931	+	245	0	98	265
74585	75875	+	12	5653970	5655263	+	1223	0	99	1295
75987	76111	+	12	5655375	5655498	+	120	0	99	124
76045	76222	+	12	5655494	5655669	+	169	0	99	177
76238	76511	+	12	5655685	5655957	+	261	0	99	273
76598	77696	+	12	5656042	5657140	+	1087	0	100	1099
77724	77875	+	12	5657170	5657320	+	136	0	97	152
88806	89010	+	12	6471409	6471614	+	148	2.40E-75	93	208
70233	70507	+	12	6487565	6487837	+	176	5.10E-92	91	276
91978	92075	-	12	6639897	6639992	+	93	1.50E-42	99	97
41540	41586	+	12	7167881	7167927	+	43	9.50E-10	98	47

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
18129	18186	+	12	7624831	7624889	+	35	6.10E-07	90	59
94798	94860	+	12	8038759	8038820	-	62	4.30E-24	100	62
51367	51879	-	12	8527031	8527541	+	472	0	98	512
50861	51355	-	12	8527545	8528031	+	411	0	96	495
50596	50854	-	12	8528027	8528280	+	165	0	91	261
82635	82763	+	12	8554381	8554509	+	101	2.50E-47	95	129
55870	55955	-	12	8554424	8554509	+	66	1.80E-26	94	86
70874	71074	-	12	9250829	9251030	-	138	2.30E-165	92	202
90496	90700	-	12	9363305	9363508	-	181	2.30E-165	97	205
43013	43044	-	12	10478235	10478266	+	32	2.20E-55	100	32
42853	42936	-	12	10478609	10478692	+	60	2.20E-55	93	84
42775	42815	-	12	10478709	10478749	+	37	2.20E-55	98	41
42720	42764	-	12	10478749	10478793	+	41	2.20E-55	98	45
115281	115298	+	12	10991795	10991811	-	17	0	100	17
111524	111539	+	12	10996862	10996876	-	15	0	100	15
126802	126818	+	12	11040090	11040105	-	16	0	100	16
57099	57540	+	12	11084561	11085000	-	433	0	100	441
56426	57010	+	12	11085079	11085663	-	573	0	99	585
109010	110805	+	12	11085721	11087521	-	1765	0	100	1801
87852	87991	-	12	11138210	11138347	-	108	1.70E-51	94	140
95956	96012	-	12	11220654	11220709	-	48	9.50E-16	96	56
45647	45946	-	12	11281482	11281781	-	288	0	99	300
45968	46165	-	12	11281803	11281995	-	178	0	97	198
46201	46276	-	12	11282029	11282104	-	76	0	100	76
46286	46495	-	12	11282114	11282323	-	202	0	99	210
46504	49273	-	12	11282332	11285103	-	2705	0	99	2773
50002	50466	-	12	11284474	11284937	-	460	0	100	464
50474	52120	-	12	11284945	11286592	-	1600	0	99	1648
49286	49502	-	12	11285112	11285328	-	217	0	100	217
49511	50000	-	12	11285337	11285827	-	475	0	99	491
73101	73502	+	12	11286592	11286992	-	393	2.50E-221	100	401
3553	4059	+	12	11407743	11408247	-	479	0	99	507

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
2941	3535	+	12	11408265	11408859	-	567	0	99	595
16	2932	+	12	11408869	11411785	-	2750	0	99	2918
80615	80903	-	12	11410447	11410734	-	268	0	98	288
134218	134506	+	12	11410447	11410734	-	268	0	98	288
80912	81955	-	12	11410744	11411788	-	969	0	98	1045
133166	134209	+	12	11410744	11411788	-	969	0	98	1045
81970	82051	-	12	11411783	11411862	-	69	0	96	81
133070	133151	+	12	11411783	11411862	-	69	0	96	81
128454	128469	+	12	11412495	11412509	-	15	0	100	15
108584	108604	+	12	11424829	11424847	-	16	0	95	20
115030	115045	+	12	11431259	11431273	-	15	0	100	15
112863	112878	+	12	11455351	11455365	-	15	0	100	15
105516	105532	+	12	11465731	11465746	-	16	0	100	16
105516	105532	+	12	11486588	11486603	-	16	0	100	16
126865	126880	+	12	11491465	11491479	-	15	0	100	15
114241	114256	+	12	11507876	11507890	-	15	0	100	15
104272	104288	+	12	11527192	11527207	-	16	0	100	16
100865	100880	+	12	11527193	11527207	-	15	0	100	15
123450	123465	+	12	11530921	11530935	-	15	0	100	15
34039	34183	-	12	11726216	11726359	-	91	1.00E-49	90	147
34194	34226	-	12	11726368	11726400	-	29	1.00E-49	97	33
10696	10748	+	12	12075683	12075734	-	45	2.30E-11	96	53
86705	86811	+	12	12771073	12771178	+	98	2.80E-56	98	106
127499	127517	+	12	13305058	13305075	-	18	4.20E-06	100	18
100864	100881	-	12	13328829	13328845	-	17	9.30E-245	100	17
21881	22039	+	12	13341442	13341600	-	159	6.60E-200	100	159
122462	122492	+	12	13343057	13343086	-	26	0.0079	97	30
102990	103047	-	12	13343832	13343888	-	57	9.30E-245	100	57
103055	103134	-	12	13343897	13343975	-	75	9.30E-245	99	79
49097	49224	+	12	13344955	13345076	-	77	0	90	129
21431	21660	+	12	13346025	13346254	-	222	6.60E-200	99	230
14604	14643	-	12	13346389	13346428	-	40	7.70E-12	100	40

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
47078	47837	+	12	13348640	13349400	-	715	0	98	763
117204	117275	-	12	13350473	13350543	-	35	5.10E-121	87	71
117305	117324	-	12	13350574	13350592	-	19	5.10E-121	100	19
117353	117452	-	12	13350622	13350720	-	30	5.10E-121	82	102
54876	55053	-	12	13350937	13351113	-	169	3.00E-122	99	177
123337	123383	+	12	13351521	13351566	-	26	4.20E-06	89	46
103666	103896	-	12	13353424	13353653	-	226	9.30E-245	100	230
103904	103957	-	12	13353662	13353714	-	53	9.30E-245	100	53
96714	96817	+	12	13370104	13370206	-	95	1.60E-79	98	103
118304	118407	-	12	13370104	13370206	-	95	9.30E-245	98	103
122484	122536	+	12	13376001	13376051	-	21	4.20E-06	85	53
64218	64299	-	12	13377314	13377394	-	77	3.00E-122	99	81
55408	55464	-	12	13377395	13377450	-	56	8.80E-110	100	56
66945	67028	+	12	13378556	13378638	-	79	1.60E-79	99	83
48658	48811	+	12	13384969	13385122	-	130	2.60E-97	96	154
48571	48847	+	12	13386768	13387044	-	225	2.60E-263	95	277
70960	71151	+	12	13389175	13389365	-	184	8.70E-97	99	192
54740	55212	-	12	13389650	13390120	-	448	0	99	472
22387	22522	+	12	13391510	13391645	-	132	2.60E-263	99	136
81702	81829	-	12	13392730	13392856	-	123	0	99	127
133292	133419	+	12	13392730	13392856	-	123	1.30E-114	99	127
102394	102410	+	12	13393108	13393123	-	16	2.50E-57	100	16
47936	48059	+	12	13393699	13393822	-	112	1.70E-251	98	124
73813	73997	-	12	13396830	13397013	-	180	0	99	184
9938	10011	+	12	13397406	13397479	-	66	1.50E-215	97	74
50596	50854	-	12	13397445	13397698	-	165	6.00E-187	91	261
81664	81759	-	12	13398980	13399074	-	95	0	100	95
133362	133457	+	12	13398980	13399074	-	95	2.90E-98	100	95
20265	20386	-	12	13399410	13399531	-	122	2.70E-115	100	122
85235	85326	-	12	13399630	13399720	-	91	0	100	91
129795	129886	+	12	13399630	13399720	-	91	1.30E-114	100	91
129822	129873	-	12	13399643	13399693	-	19	7.40E-81	84	55



Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
119770	119786	+	12	13401203	13401218	-	16	5.20E-100	100	16
122941	122994	+	12	13403192	13403244	-	41	1.30E-114	94	53
117664	117710	-	12	13404538	13404585	-	40	2.60E-93	96	48
114284	114300	+	12	13405700	13405715	-	16	1.30E-114	100	16
100821	100837	-	12	13405700	13405715	-	16	6.00E-78	100	16
55612	55666	-	12	13407443	13407496	-	50	1.80E-294	98	54
104270	104286	-	12	13409215	13409230	-	16	6.00E-78	100	16
11487	11638	+	12	13410040	13410191	-	148	2.60E-263	99	152
18096	18156	-	12	13410894	13410951	-	41	5.30E-69	92	61
81590	81651	-	12	13410912	13410972	-	57	0	98	61
133470	133531	+	12	13410912	13410972	-	57	1.10E-18	98	61
81829	81990	+	12	13410973	13411133	-	157	5.30E-93	99	161
133131	133292	-	12	13410973	13411133	-	157	2.60E-93	99	161
30604	30738	-	12	13413758	13413892	-	115	2.70E-115	96	135
48024	48212	+	12	13417952	13418144	-	161	2.30E-202	96	193
119690	119706	-	12	13424653	13424668	-	16	4.10E-10	100	16
127500	127517	+	12	13434075	13434091	-	17	5.20E-100	100	17
114159	114175	+	12	13478051	13478066	-	16	1.30E-114	100	16
35225	35263	-	12	13823457	13823495	+	31	1.30E-05	95	39
21691	21730	-	12	13984167	13984207	+	33	3.50E-06	95	41
104925	104941	-	12	16564745	16564760	-	16	0	100	16
81430	82040	+	12	16609595	16610204	-	578	0	99	610
133081	133691	-	12	16609595	16610204	-	578	0	99	610
81430	82040	+	12	16630225	16630834	-	578	0	99	610
133081	133691	-	12	16630225	16630834	-	578	0	99	610
87260	87390	+	12	16855787	16855915	+	122	7.60E-60	98	130
2941	2999	+	12	16890725	16890786	+	38	8.90E-11	90	62
3056	3103	-	12	16969073	16969120	-	29	3.70E-07	90	49
64811	64918	-	12	17957634	17957737	-	79	2.70E-75	93	107
64965	65093	-	12	17957740	17957867	-	88	2.70E-75	92	128
45003	45053	-	12	18085161	18085212	+	36	1.80E-06	92	52
80178	80600	+	12	18258615	18259036	-	341	1.70E-197	95	425

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
36616	36665	-	12	18579750	18579801	+	40	1.20E-29	94	52
36542	36607	-	12	18579809	18579876	+	40	1.20E-29	90	68
36498	36530	-	12	18579886	18579918	+	29	1.20E-29	97	33
15786	15875	+	12	18580029	18580118	+	78	2.00E-28	97	90
72195	72306	+	12	18584245	18584355	+	75	7.70E-32	92	111
2457	2609	+	12	18754641	18754792	-	60	6.80E-21	85	156
13504	13589	+	12	18885044	18885129	+	50	9.70E-15	90	86
35248	35491	-	12	19160285	19160529	+	217	7.30E-112	97	245
91687	92036	+	12	19164907	19165255	+	333	1.40E-185	99	349
123085	123434	-	12	19164907	19165255	+	333	4.60E-183	99	349
13997	14139	-	12	19257551	19257692	+	100	0	92	144
13883	13987	-	12	19257700	19257799	+	73	0	92	105
13503	13896	-	12	19258025	19258420	+	329	0	96	397
12196	13482	-	12	19258424	19259715	+	1100	0	96	1296
36195	36238	-	12	19259079	19259122	+	36	2.90E-144	95	44
11831	12129	-	12	19259710	19260005	+	251	0	96	299
15040	15080	-	12	19260011	19260050	+	29	9.50E-14	93	41
47665	47823	-	12	19710641	19710797	+	93	1.30E-38	89	161
76074	76222	+	12	20423644	20423791	-	144	3.00E-82	99	148
77042	77462	-	12	20444678	20445097	-	420	2.10E-237	100	420
76342	76511	+	12	20445114	20445282	-	169	7.50E-88	100	169
18730	18775	+	12	20481121	20481166	-	38	5.50E-125	96	46
18642	18731	+	12	20481158	20481248	-	75	5.50E-125	96	91
18464	18624	+	12	20481264	20481424	-	157	5.50E-125	99	161
18985	19352	+	12	20498744	20499111	-	364	6.70E-202	100	368
99204	99290	+	12	20499851	20499936	-	86	2.10E-38	100	86
51221	51293	-	12	20511224	20511295	-	56	1.60E-20	94	72
123253	123270	+	12	20581266	20581282	+	17	2.00E-44	100	17
105157	105175	+	12	20601905	20601922	+	18	1.20E-121	100	18
122359	122392	+	12	20605388	20605420	+	29	1.20E-121	97	33
122462	122536	+	12	20605537	20605609	+	39	1.20E-121	88	75
122632	122701	+	12	20605705	20605773	+	29	1.20E-121	86	69

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
122754	122829	+	12	20605898	20605972	+	32	1.20E-121	86	76
92127	92246	-	12	20606018	20606136	+	80	1.40E-57	92	120
122875	122994	+	12	20606018	20606136	+	80	1.20E-121	92	120
123298	123383	+	12	20606435	20606519	+	33	1.20E-121	85	85
91571	91655	-	12	20606605	20606688	+	57	1.40E-57	92	85
123466	123550	+	12	20606605	20606688	+	57	1.20E-121	92	85
123712	123737	+	12	20606819	20606843	+	21	1.20E-121	96	25
123752	123812	+	12	20606981	20607040	+	32	1.20E-121	88	60
33852	33904	+	12	20607208	20607260	+	53	1.10E-15	100	53
130887	130911	+	12	20607523	20607546	+	20	1.20E-121	96	24
32069	32533	+	12	20617031	20617494	+	373	1.10E-205	95	465
128806	128822	+	12	20620556	20620571	+	16	2.40E-119	100	16
120538	120554	+	12	20891603	20891618	+	16	4.10E-31	100	16
104191	104517	-	12	20891726	20892051	+	322	0	100	326
105755	105772	-	12	20891952	20891968	+	17	0	100	17
114240	114256	+	12	20891955	20891970	+	16	4.10E-31	100	16
103904	104131	-	12	20892113	20892339	+	227	0	100	227
103196	103896	-	12	20892347	20893046	+	700	0	100	700
103055	103188	-	12	20893055	20893187	+	133	0	100	133
102137	103047	-	12	20893196	20894105	+	890	0	99	910
101699	102129	-	12	20894114	20894543	+	419	0	99	431
125222	125237	-	12	20894275	20894289	+	15	0	100	15
101849	101869	+	12	20894374	20894393	+	20	0	100	20
101500	101690	-	12	20894553	20894742	+	190	0	100	190
101114	101439	-	12	20894804	20895128	+	325	0	100	325
113728	113961	+	12	20894850	20895082	+	233	0	100	233
127783	127798	-	12	20895117	20895131	+	15	0	100	15
100071	101106	-	12	20895137	20896172	+	1028	0	100	1036
114016	115050	+	12	20895138	20896172	+	1027	0	100	1035
114451	114503	-	12	20895573	20895624	+	44	1.40E-10	96	52
100618	100670	+	12	20895573	20895624	+	44	1.30E-47	96	52
104001	104016	-	12	20902895	20902909	+	15	2.80E-174	100	15

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
55877	55976	+	12	20909009	20909108	+	92	5.70E-42	98	100
82676	82756	-	12	20909009	20909088	+	76	7.30E-51	99	80
132365	132445	+	12	20909009	20909088	+	76	0	99	80
132418	132433	+	12	20909851	20909865	+	15	0	100	15
124026	124041	+	12	20910135	20910149	+	15	0	100	15
103738	103754	+	12	20914889	20914904	+	16	2.90E-11	100	16
104001	104016	-	12	20917192	20917206	+	15	2.80E-174	100	15
104578	104594	-	12	20922096	20922111	+	16	1.40E-10	100	16
116391	116406	+	12	20946249	20946263	+	15	0	100	15
126629	126644	+	12	20967930	20967944	+	15	0	100	15
106061	106076	-	12	20968679	20968693	+	15	5.00E-10	100	15
104716	104731	+	12	20978395	20978409	+	15	2.90E-11	100	15
116391	116406	+	12	20978471	20978485	+	15	0	100	15
101513	101528	-	12	20990561	20990575	+	15	0	100	15
109979	109996	+	12	20999364	20999380	+	17	2.90E-11	100	17
112006	112021	+	12	21009479	21009493	+	15	2.90E-11	100	15
50866	50924	-	12	21013216	21013273	+	50	7.30E-51	97	58
23407	23921	-	12	21311221	21311734	+	445	1.00E-272	97	517
23332	23409	-	12	21330248	21330325	+	62	1.00E-272	95	78
33852	33904	+	12	21567874	21567926	-	53	1.40E-16	100	53
45494	45574	+	12	22455533	22455610	+	62	1.90E-144	94	82
45613	45845	+	12	22455649	22455881	+	225	1.90E-144	99	233
45494	45574	+	12	22456036	22456114	+	65	3.10E-146	95	81
45613	45845	+	12	22456153	22456385	+	217	1.70E-141	98	233
45494	45574	+	12	22456540	22456618	+	69	1.30E-148	96	81
45613	45845	+	12	22456657	22456889	+	225	1.30E-148	99	233
36938	37032	-	12	22663622	22663716	+	95	2.50E-43	100	95
20018	20193	-	12	23395284	23395459	-	113	3.10E-50	91	177
48971	49084	-	12	23531238	23531356	-	64	6.20E-43	88	120
49097	49233	-	12	23531363	23531491	-	53	6.20E-43	85	137
18730	18775	+	12	23832613	23832658	-	30	1.10E-66	91	46
18642	18728	+	12	23832653	23832739	-	53	1.10E-66	90	89

Chloroplast			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
18530	18624	+	12	23832754	23832847	-	75	1.10E-66	95	95
18471	18512	+	12	23832858	23832899	-	34	1.10E-66	95	42
36366	36419	-	12	23991513	23991566	-	50	5.50E-15	98	54
95220	95354	+	12	23996189	23996322	-	114	4.40E-55	96	134
39293	39638	-	12	24562307	24562655	+	243	2.30E-127	92	351
97995	98079	-	12	24647869	24647951	+	73	2.10E-133	96	85
117042	117126	+	12	24647869	24647951	+	73	7.90E-132	96	85
97761	97985	-	12	24647951	24648174	+	192	2.10E-133	96	224
117136	117360	+	12	24647951	24648174	+	192	7.90E-132	96	224
81126	81193	+	12	24649504	24649570	+	59	2.60E-22	97	67
133928	133995	-	12	24649504	24649570	+	59	2.70E-19	97	67
66206	66308	+	12	24650273	24650374	+	90	8.90E-41	97	102
103735	103751	-	12	24765385	24765400	+	16	2.70E-19	100	16
35300	35441	+	12	25441456	25441598	+	55	2.10E-16	84	147
23384	23451	-	12	25986696	25986763	-	40	1.70E-08	90	68
19121	19165	-	12	26193975	26194019	+	37	1.50E-06	96	45
82674	82765	-	12	26378866	26378955	-	68	1.10E-27	93	92
55697	55957	+	12	26378868	26379125	-	177	1.30E-92	92	261
15395	15454	+	12	26617030	26617089	+	44	2.30E-13	93	60
107849	108229	-	12	27395095	27395476	+	207	1.20E-110	89	383

**Table A-2** Mitochondrial DNA homologies in the rice nuclear genome

Mitochondria			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
20741	20840	+	1	1986919	1987155	+	100	3.50E-154	100	100
28810	28906	-	1	1987177	1987418	+	50	7.80E-169	87	102
27723	27844	+	1	2521305	2521690	+	118	0	99	122
30532	30660	+	1	2521305	2521690	+	113	0	97	129
27220	27357	-	1	2521704	2521901	+	138	3.90E-93	100	138
22319	22457	+	1	2521704	2521901	+	135	3.50E-154	99	139
27700	27844	-	1	2800795	2801057	+	137	5.10E-66	99	145
30570	30716	-	1	3073702	3073840	+	120	2.60E-69	95	148
35155	35304	-	1	3379496	3379651	+	102	8.00E-78	92	150
27905	28055	+	1	3391533	3391688	+	139	0	98	151
27905	28055	+	1	3698513	3698817	+	135	0	97	151
28718	28884	+	1	4092658	4092947	+	148	0	97	168
9625	9816	+	1	4092658	4092947	+	168	3.90E-102	97	192
26977	27174	-	1	4093050	4093269	+	198	5.30E-129	100	198
40266	40470	+	1	5545437	5545812	+	205	0	100	205
404	609	-	1	6867176	6867383	+	202	1.30E-107	100	206
16637	16844	-	1	6867176	6867383	+	172	9.90E-90	96	208
11076	11293	+	1	6867383	6867743	+	206	5.50E-110	99	218
28924	29143	-	1	6867383	6867743	+	115	7.80E-169	88	223
27609	27844	+	1	7225663	7225978	+	196	0	96	236
26086	26324	+	1	7225663	7225978	+	221	0	98	241
158	399	+	1	7225977	7226086	+	238	1.50E-125	100	242
40215	40470	-	1	7226433	7226562	+	252	3.30E-134	100	256
29370	29668	+	1	7226433	7226562	+	295	0	100	299
4248	4578	-	1	7301156	7301260	+	327	0	100	331
8899	9230	-	1	7301260	7301600	+	332	0	100	332
29205	29541	-	1	7914155	7914630	+	174	7.80E-169	88	338
27196	27546	-	1	7914155	7914630	+	339	3.50E-184	99	351
31166	31567	-	1	8158729	8158898	+	306	4.70E-190	94	402
28153	28583	+	1	8158963	8159199	+	343	0	95	435
28153	28583	+	1	8876134	8876317	+	327	0	94	435
9872	10363	+	1	9878240	9878380	+	465	0	99	493



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
1557	2170	+	1	9878240	9878380	+	445	1.90E-247	93	617	
28718	29383	+	1	11192007	11192210	+	611	0	98	667	
29454	30249	-	1	12566250	12566382	+	763	0	99	799	
26588	27611	+	1	12929099	12929494	+	870	0	96	1030	
26328	27595	+	1	12929099	12929494	+	1186	0	98	1274	
115268	115368	+	1	14119914	14120940	+	100	1.70E-110	100	100	
93327	93449	+	1	14119914	14120209	+	114	6.50E-53	98	122	
116846	116985	+	1	14120210	14120940	+	135	1.70E-110	99	139	
104152	104344	+	1	14120945	14121180	+	168	3.90E-102	97	192	
94931	95137	-	1	14120945	14121180	+	202	5.30E-105	100	206	
111164	111372	-	1	14121454	14121604	+	172	1.00E-89	96	208	
105603	105821	+	1	14121454	14121604	+	206	5.50E-110	99	218	
120613	120852	+	1	14121713	14122142	+	221	0	98	241	
94685	94927	+	1	14121713	14122142	+	238	3.70E-135	100	242	
121115	121411	+	1	14122304	14122471	+	256	4.30E-135	97	296	
98775	99106	-	1	14122304	14122471	+	327	0	100	331	
103426	103758	-	1	15109868	15110154	+	332	0	100	332	
104399	104891	+	1	15792004	15792134	+	465	7.10E-261	99	493	
120855	121411	+	1	17381772	17381917	+	536	0	99	556	
96084	96698	+	1	17381772	17381917	+	445	1.30E-247	93	617	
43216	43316	+	1	18563883	18563995	+	100	3.20E-45	100	100	
73168	73269	-	1	18604594	18604697	+	101	7.70E-77	100	101	
73158	73272	+	1	18662633	18662874	+	82	1.50E-32	93	114	
68319	68436	+	1	18662633	18662874	+	113	5.60E-62	99	117	
57803	57936	-	1	18662873	18663002	+	129	2.90E-61	99	133	
64258	64414	+	1	18663007	18663226	+	136	1.10E-64	97	156	
68275	68449	+	1	18663007	18663226	+	174	3.40E-98	100	174	
54330	54507	-	1	18663226	18663592	+	154	2.00E-96	97	178	
71172	71360	+	1	18663226	18663592	+	140	3.30E-67	94	188	
78009	78228	-	1	18663667	18664044	+	215	0	100	219	
71241	71484	-	1	18664084	18664560	+	195	2.90E-98	95	243	
71240	71484	-	1	18664561	18664829	+	216	1.40E-110	97	244	
65585	65871	-	1	18664561	18664829	+	278	2.00E-188	99	286	
74761	75072	-	1	18664830	18664971	+	311	0	100	311	
79249	79570	+	1	18665076	18665600	+	273	3.20E-144	96	321	
79249	79570	+	1	18665596	18666416	+	259	7.40E-135	95	327	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
43430	43796	-	1	18666415	18666577	+	327	9.40E-178	97	367	
446952	450449	-	1	18666578	18666773	+	3489	0	100	3497	
465054	467566	-	1	18666775	18666945	+	2509	0	100	2513	
460275	462146	+	1	18666946	18667096	+	1859	0	100	1871	
482345	483474	+	1	18667093	18667224	+	1129	0	100	1129	
464072	465033	-	1	18667226	18667500	+	953	0	100	961	
461284	462129	+	1	18667245	18667500	+	838	0	100	846	
445461	446216	-	1	18667880	18668169	+	755	0	100	755	
462867	463437	+	1	18668256	18668386	+	558	3.8e-310	99	570	
455403	455879	-	1	18668386	18668596	+	445	1.20E-247	98	477	
486488	486910	-	1	18668597	18668730	+	414	9.50E-233	100	422	
446376	446788	-	1	18668597	18668730	+	412	0	100	412	
486392	486804	-	1	18668732	18668864	+	404	0	100	412	
485430	485811	+	1	18668732	18668864	+	345	6.20E-190	98	381	
451997	452366	+	1	18668865	18669150	+	361	9.00E-261	99	369	
455059	455426	+	1	18669238	18669452	+	359	0	99	367	
463725	464064	-	1	18669452	18669615	+	335	0	100	339	
466883	467217	-	1	18806417	18806634	+	327	6.90E-274	99	335	
462214	462530	-	1	18806417	18806634	+	280	3.10E-149	97	316	
463292	463561	+	1	18977321	18977470	+	265	0	100	269	
448363	448626	-	1	18977321	18977470	+	131	1.10E-63	87	263	
445174	445430	+	1	19442390	19442496	+	256	0	100	256	
485463	485709	+	1	19443196	19443309	+	198	7.50E-131	95	246	
465954	466174	-	1	21690718	21690905	+	208	3.40E-107	99	220	
485446	485660	-	1	22563818	22564141	+	206	5.10E-215	99	214	
481549	481752	-	1	22564150	22564395	+	199	0	100	203	
451555	451731	-	1	22564150	22564395	+	164	2.90E-79	98	176	
451555	451731	-	1	22564397	22564506	+	164	3.30E-80	98	176	
464209	464356	+	1	22564397	22564506	+	50	0	83	154	
486669	486815	+	1	22564537	22564780	+	114	5.40E-70	95	146	
446796	446941	-	1	22566555	22566875	+	145	0	100	145	
446224	446367	-	1	22566873	22567252	+	143	0	100	143	
445615	445756	+	1	22566873	22567252	+	133	1.20E-64	99	141	
478680	478813	+	1	22567283	22567525	+	129	0	99	133	
482232	482362	+	1	22794152	22794342	+	114	8.10E-53	97	130	
487428	487554	+	1	22794152	22794342	+	102	2.10E-45	95	126	





Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
482971	483091	+	1	23132130	23132496	+	120	9.00E-261	100	120	
478216	478334	-	1	23132130	23132496	+	118	3.60E-63	100	118	
485703	485811	+	1	24230026	24230245	+	66	7.50E-131	90	110	
465504	465611	+	1	24230264	24230364	+	103	6.60E-57	99	107	
472432	472537	-	1	24636227	24636515	+	101	4.20E-69	99	105	
484882	484986	-	1	24636636	24636927	+	104	6.90E-274	100	104	
406833	406939	+	1	24730249	24730480	+	104	2.30E-170	99	106	
409281	409388	+	1	26590723	26590847	+	95	2.40E-62	97	107	
440892	441018	-	1	27827129	27827742	+	106	0	96	126	
435252	435381	-	1	27827129	27827742	+	129	5.70E-60	100	129	
410301	410430	+	1	28097561	28097714	+	129	0	100	129	
442305	442427	-	1	28361408	28361977	+	81	0	91	129	
440107	440237	-	1	28361408	28361977	+	94	0	93	130	
406722	406854	+	1	28394549	28394696	+	132	0	100	132	
431595	431729	+	1	28394549	28394696	+	130	1.80E-106	99	134	
417301	417438	-	1	29712512	29712716	+	137	2.40E-111	100	137	
415867	416026	+	1	29712512	29712716	+	155	5.90E-204	99	159	
416318	416494	-	1	30061173	30061509	+	176	3.30E-171	100	176	
411337	411515	+	1	30061173	30061509	+	178	5.90E-204	100	178	
406427	406610	-	1	30061797	30062015	+	159	3.30E-171	97	183	
442617	442816	+	1	30061797	30062015	+	183	8.60E-293	98	199	
423919	424124	+	1	30062029	30062130	+	166	7.30E-84	95	206	
438442	438644	+	1	30062029	30062130	+	109	2.60E-71	88	209	
436928	437170	-	1	31910316	31910420	+	238	1.70E-124	100	242	
435392	435636	-	1	31910316	31910420	+	236	2.10E-132	99	244	
440518	440774	-	1	31910316	31910420	+	206	0	95	258	
433625	433915	+	1	31910593	31910710	+	290	1.40E-153	100	290	
422565	422922	-	1	31910593	31910710	+	293	4.40E-159	95	361	
442217	442603	+	1	31910604	31910710	+	354	8.60E-293	98	386	
410848	411235	+	1	33478131	33478839	+	380	0	99	388	
412862	413359	-	1	33483563	33483752	+	489	0	100	497	
439174	439863	+	1	33485848	33486692	+	689	0	100	689	
440028	440879	+	1	33485848	33486692	+	851	0	100	851	
441345	442306	-	1	33492335	33493376	+	841	0	97	961	
441028	442265	-	1	33493385	33495052	+	1058	0	96	1238	
440888	442603	+	1	33495037	33495899	+	1707	0	100	1715	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
442617	445171	+	1	33495898	33496586	+	2554	0	100	2554	
384417	384524	+	1	33495898	33496586	+	103	1.30E-48	99	107	
364231	364343	+	1	33496673	33497602	+	112	0	100	112	
395696	395811	+	1	33496752	33497602	+	63	1.30E-63	89	115	
399276	399395	-	1	33497612	33499326	+	119	4.40E-70	100	119	
400202	400333	+	1	33497612	33499326	+	119	0	98	131	
364528	364669	+	1	33499341	33501894	+	133	4.40E-63	99	141	
365137	365280	-	1	33499341	33502041	+	143	0	100	143	
365709	365854	-	1	33501898	33502153	+	145	0	100	145	
383122	383269	+	1	33502042	33502153	+	50	0	83	154	
391513	391668	+	1	33509411	33509615	+	155	8.10E-283	100	155	
396643	396806	+	1	33509411	33509615	+	159	0	99	163	
370468	370644	-	1	33513535	33514333	+	164	1.80E-82	98	176	
370468	370644	-	1	33513535	33514333	+	164	9.90E-81	98	176	
384867	385087	-	1	33514330	33517826	+	208	9.40E-107	99	220	
367276	367539	-	1	33514330	33517826	+	131	6.00E-63	87	263	
382205	382474	+	1	33517836	33517980	+	265	0	100	269	
381127	381443	-	1	33517836	33517980	+	280	2.20E-149	97	316	
385796	386131	-	1	33517989	33518400	+	331	1.60E-223	100	335	
382638	382977	-	1	33517989	33518400	+	335	0	100	339	
373972	374339	+	1	33518410	33518552	+	359	0	99	367	
370910	371279	+	1	33518410	33518552	+	361	8.10E-283	99	369	
365289	365701	-	1	33518561	33519315	+	412	0	100	412	
374316	374792	-	1	33518561	33519315	+	445	4.70E-249	98	477	
381780	382350	+	1	33519316	33519555	+	558	2.1e-310	99	570	
395692	396401	+	1	33519316	33519555	+	673	0	99	709	
364374	365129	-	1	33519568	33520839	+	755	0	100	755	
380197	381042	+	1	33519568	33520123	+	838	0	100	846	
382985	383946	-	1	33520124	33520839	+	953	0	100	961	
379188	381059	+	1	33523471	33525341	+	1859	0	100	1871	
365865	369362	-	1	33523471	33525341	+	3489	0	100	3497	
383967	387767	-	1	33525361	33526489	+	3800	0	100	3800	
336986	337097	-	1	33525361	33526489	+	99	3.40E-41	97	111	
359805	359931	-	1	33528876	33528984	+	106	0	96	126	
354165	354294	-	1	33529021	33530615	+	129	1.20E-58	100	129	
361218	361340	-	1	33530630	33531296	+	81	0	91	129	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
359020	359150	-	1	33531316	33532559	+	94	0	93	130	
349773	349904	+	1	33532063	33532559	+	103	3.10E-45	95	131	
350508	350642	+	1	33532063	33532559	+	130	1.30E-214	99	134	
330051	330187	+	1	33532891	33533041	+	136	1.50E-120	100	136	
330045	330187	+	1	33532891	33533041	+	142	3.30E-108	100	142	
330027	330187	+	1	33533149	33533578	+	156	3.20E-108	99	160	
328604	328775	-	1	33533149	33533578	+	156	3.70E-205	98	172	
329900	330091	-	1	33533740	33534406	+	92	1.10E-71	87	196	
324516	324714	-	1	33533740	33534406	+	194	1.50E-123	99	198	
361530	361729	+	1	33534632	33534741	+	183	6.20E-293	98	199	
342832	343037	+	1	33535874	33536047	+	166	9.20E-83	95	206	
357355	357557	+	1	33539813	33539940	+	109	1.30E-67	88	209	
355841	356083	-	1	33539813	33539940	+	238	1.10E-125	100	242	
354305	354549	-	1	33539946	33540901	+	236	3.70E-205	99	244	
359431	359687	-	1	33539946	33540901	+	206	0	95	258	
352538	352828	+	1	33539982	33541213	+	290	1.40E-153	100	290	
332891	333181	+	1	33539982	33541213	+	274	1.30E-214	99	290	
341478	341835	-	1	33541214	33541339	+	293	4.40E-159	95	361	
361130	361516	+	1	33541214	33541339	+	354	6.20E-293	98	386	
358087	358776	+	1	33541402	33541658	+	689	0	100	689	
358862	359792	+	1	33541402	33541658	+	930	0	100	930	
360258	361219	-	1	33541869	33541998	+	841	0	97	961	
359941	361178	-	1	33541869	33541998	+	1058	0	96	1238	
359801	361516	+	1	33546186	33546307	+	1707	0	100	1715	
361530	364231	+	1	33546186	33546307	+	2697	0	100	2701	
288949	290617	-	1	33552764	33552892	+	1640	0	100	1668	
290625	291667	-	1	33552764	33552892	+	1026	0	100	1042	
288120	288990	-	1	33562091	33565890	+	806	0	98	870	
303325	304155	-	1	33563378	33565890	+	794	0	99	830	
300809	301630	+	1	33565912	33566872	+	817	0	100	821	
300743	301323	-	1	33565912	33566872	+	573	0	100	581	
303577	304155	-	1	33566881	33567219	+	558	0	99	578	
288390	288867	+	1	33566881	33567219	+	477	0	100	477	
316628	317091	+	1	33567524	33567670	+	400	2.10E-237	97	464	
313788	314175	+	1	33567524	33567670	+	364	8.20E-283	98	388	
300835	301145	-	1	33691198	33691342	+	298	1.20E-169	99	310	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
290807	291094	-	1	33691198	33691342	+	271	6.60E-141	99	287	
292128	292381	-	1	34349474	34349614	+	249	1.10E-140	100	253	
303325	303577	-	1	34349615	34349714	+	236	2.50E-135	98	252	
290267	290504	+	1	34349615	34349714	+	142	4.80E-67	90	238	
310452	310684	-	1	34349828	34350033	+	224	0	99	232	
310452	310684	-	1	34349828	34350033	+	224	0	99	232	
286277	286493	-	1	34350033	34350170	+	189	2.50E-97	96	221	
285397	285596	-	1	34350033	34350170	+	199	4.60E-112	100	199	
284946	285105	+	1	34350732	34350856	+	155	8.20E-283	99	159	
286412	286569	+	1	34350960	34351097	+	137	7.30E-66	97	157	
319490	319644	+	1	34350960	34351097	+	150	4.90E-73	99	154	
297516	297655	+	1	34351287	34351387	+	119	4.00E-70	96	139	
287277	287414	+	1	34351854	34351951	+	129	2.00E-143	99	137	
244747	245230	+	1	34351854	34351951	+	396	4.60E-218	95	484	
246083	246260	-	1	34352084	34352190	+	94	0	88	178	
246245	246450	+	1	34352084	34352190	+	177	1.00E-92	97	205	
247260	247370	-	1	34352704	34352809	+	47	0	86	111	
248679	248946	+	1	34353490	34353607	+	223	1.80E-117	96	267	
249612	249730	+	1	34353490	34353607	+	114	6.80E-52	99	118	
250142	250243	-	1	34353663	34353793	+	49	6.80E-52	87	101	
250261	250481	-	1	34354612	34354718	+	80	6.80E-52	84	224	
251585	251709	+	1	34354612	34354718	+	120	1.2e-312	99	124	
257795	257932	-	1	34354891	34355132	+	133	1.70E-202	99	137	
258002	258144	-	1	34354891	34355132	+	138	2.40E-139	99	142	
261774	262081	+	1	34355396	34355587	+	194	2.70E-100	91	310	
263182	263303	-	1	38361430	38361758	+	121	1.70E-202	100	121	
263183	263299	-	1	39015432	39015609	+	112	2.30E-128	99	116	
266342	266452	-	1	39090013	39090116	+	94	3.20E-42	96	110	
266342	266452	-	1	39090017	39090116	+	94	7.10E-39	96	110	
267688	267801	-	1	39090118	39090230	+	113	1.70E-202	100	113	
269116	269641	+	1	39090294	39090429	+	501	2.50E-282	99	525	
271562	271851	+	1	39090467	39090587	+	257	7.90E-159	97	289	
274117	274351	+	1	39090588	39090922	+	234	5.90E-225	100	234	
274247	274348	-	1	39090588	39090922	+	81	8.00E-114	95	101	
277790	277897	-	1	39090946	39091123	+	107	1.40E-50	100	107	
278355	278473	+	1	39090946	39091123	+	106	2.70E-48	97	118	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
279386	279515	+	1	39090946	39091123	+	129	5.50E-286	100	129	
279933	280320	+	1	39091124	39091249	+	380	1.2e-312	99	388	
280422	280600	+	1	39091251	39091582	+	178	6.70E-133	100	178	
281947	282444	-	1	39091251	39091582	+	489	0	100	497	
202495	202823	-	1	39091870	39092067	+	148	4.90E-73	95	184	
202985	203885	-	1	39092067	39092203	+	262	4.90E-160	100	266	
203425	204789	+	1	39092207	39092405	+	245	4.10E-138	96	293	
205600	209065	-	1	39092230	39092405	+	208	2.50E-187	99	216	
205814	209512	+	1	39092407	39092756	+	227	0	99	235	
206294	210342	+	1	39092927	39093366	+	101	2.50E-96	99	105	
209664	217147	+	1	39093365	39093483	+	111	3.30E-111	91	171	
209812	217512	+	1	39093615	39093867	+	122	3.30E-111	88	242	
211015	219809	+	1	39093867	39094358	+	126	1.00E-297	99	130	
211908	221801	+	1	39093867	39094358	+	304	0	98	336	
212192	222457	+	1	39094362	39094503	+	404	0	99	424	
214062	225874	+	1	39094545	39094660	+	101	0	100	101	
214985	227853	+	1	39094667	39094976	+	234	0	100	234	
215115	227980	-	1	39095610	39095769	+	81	3.50E-89	95	101	
218658	235072	-	1	39095837	39095995	+	107	1.20E-85	100	107	
219223	236213	+	1	39095837	39095995	+	106	2.50E-96	97	118	
220254	238286	+	1	39096091	39096191	+	129	0	100	129	
220801	239638	+	1	39096192	39096772	+	380	0	99	388	
221290	240407	+	1	39096775	39097197	+	178	1.40E-133	100	178	
222815	244523	-	1	39097197	39097379	+	1228	0	100	1244	
224078	246472	-	1	39097377	39097590	+	667	0	100	667	
224759	248762	-	1	39097377	39097590	+	1595	0	100	1595	
227447	252694	-	1	39097590	39097721	+	151	2.50E-187	100	151	
228777	255310	+	1	39097816	39098227	+	87	5.50E-35	95	107	
229776	257866	-	1	39097816	39098227	+	653	0	100	665	
235431	268748	-	1	39098232	39098562	+	233	0	100	237	
239652	277065	+	1	39098232	39098562	+	100	3.70E-170	97	112	
239776	277473	+	1	39098563	39098760	+	232	3.70E-170	96	272	
239933	277624	-	1	39098563	39098760	+	105	0	99	109	
241431	280889	+	1	39098900	39099036	+	370	1.00E-297	99	378	
198859	198963	-	1	39099178	39099421	+	92	2.50E-193	97	104	
171018	171123	-	1	39099178	39099421	+	85	2.40E-238	95	105	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
195131	195241	-	1	39099411	39099580	+	94	2.40E-238	96	110	
162602	162710	+	1	39099580	39099967	+	66	3.30E-128	90	110	
191362	191477	-	1	39099967	39100201	+	115	0	100	115	
185227	185352	-	1	39100375	39100689	+	125	3.10E-169	100	125	
175947	176072	+	1	39100773	39100946	+	121	2.40E-59	99	125	
192700	192826	+	1	39100947	39101315	+	122	3.00E-98	99	126	
164327	164453	+	1	39100947	39101315	+	102	1.90E-46	95	126	
182686	182817	-	1	39101580	39101878	+	131	3.10E-169	100	131	
174790	174922	-	1	39101580	39101878	+	128	2.50E-193	99	132	
172685	172824	+	1	39101913	39102248	+	132	3.10E-118	99	140	
184331	184472	+	1	39102250	39102378	+	141	3.00E-181	100	141	
163568	163714	+	1	39102250	39102378	+	114	6.00E-72	95	146	
170777	170941	+	1	39102250	39102378	+	156	1.50E-73	99	164	
183672	183843	-	1	39102508	39102773	+	167	2.50E-193	99	171	
195954	196146	+	1	39102774	39102890	+	172	3.00E-181	97	192	
180946	181142	+	1	39102891	39102990	+	192	1.80E-136	99	196	
195079	195291	-	1	39102891	39102990	+	192	2.80E-141	98	212	
162345	162559	-	1	39103046	39103264	+	206	6.10E-117	99	214	
188672	188909	-	1	39103376	39103530	+	165	4.20E-177	92	237	
188383	188625	-	1	39103531	39103832	+	151	4.20E-177	91	243	
162362	162608	+	1	39103832	39103971	+	198	3.30E-128	95	246	
184463	184765	-	1	39104059	39104369	+	302	0	100	302	
168950	169265	-	1	39104370	39104606	+	315	0	100	315	
179577	179906	-	1	39105278	39105401	+	297	3.10E-159	98	329	
170664	171004	-	1	39105400	39105604	+	283	2.40E-238	96	343	
188616	188966	+	1	39105400	39105673	+	342	6.40E-228	99	350	
162329	162710	+	1	39105671	39105807	+	345	6.50E-188	98	381	
188219	188594	-	1	39105851	39106053	+	169	3.30E-84	86	385	
163291	163703	-	1	39105851	39106053	+	404	1.20E-234	100	412	
163387	163809	-	1	39106053	39106440	+	414	0	100	422	
179116	179556	+	1	39106053	39106440	+	436	5.90E-306	100	440	
176315	177156	-	1	39106053	39106440	+	841	0	100	841	
161781	161880	-	1	39106435	39106549	+	100	1.20E-169	100	100	
137743	137842	+	1	39106653	39107073	+	100	9.30E-270	100	100	
123337	123433	-	1	39106653	39107073	+	50	6.00E-170	87	102	
149331	149435	-	1	39107139	39107803	+	101	1.30E-43	99	105	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
155115	155232	-	1	39107804	39108037	+	118	8.40E-56	100	118	
159870	159989	+	1	39107804	39108037	+	120	0	100	120	
122250	122371	+	1	39108039	39108158	+	118	0	99	122	
125059	125187	+	1	39108039	39108158	+	113	0	97	129	
159131	159260	+	1	39108159	39108280	+	114	6.40E-53	97	130	
155579	155711	+	1	39108279	39108396	+	129	6.60E-59	99	133	
121747	121884	-	1	39177728	39177839	+	138	1.80E-69	100	138	
122227	122371	-	1	39177853	39178123	+	137	4.00E-67	99	145	
125097	125243	-	1	39331077	39331559	+	120	3.20E-70	95	148	
129682	129831	-	1	39565015	39565143	+	102	3.80E-80	92	150	
122432	122582	+	1	39565015	39565143	+	139	0	98	151	
122432	122582	+	1	40333073	40333330	+	135	0	97	151	
123245	123411	+	1	40333073	40333330	+	148	0	97	168	
121504	121701	-	1	41274989	41275113	+	198	1.20E-169	100	198	
158448	158650	-	1	41274989	41275113	+	199	9.00E-154	100	203	
123451	123670	-	1	41434732	41434963	+	115	6.00E-170	88	223	
122136	122371	+	1	41434963	41435068	+	196	0	96	236	
134793	135066	+	1	41435069	41435244	+	274	0	100	274	
134742	135016	-	1	41435069	41435244	+	271	3.10E-145	100	275	
123897	124195	+	1	41435245	41435820	+	295	0	100	299	
123732	124068	-	1	41435821	41436072	+	174	6.00E-170	88	338	
121723	122073	-	1	41465705	41465936	+	339	5.80E-186	99	351	
137957	138323	-	1	41465936	41466041	+	331	5.80E-202	98	367	
125693	126094	-	1	41466042	41466217	+	306	4.90E-188	94	402	
122680	123110	+	1	41466042	41466217	+	343	0	95	435	
122680	123110	+	1	41466218	41467045	+	327	0	94	435	
123245	123910	+	1	41474474	41474936	+	611	0	98	667	
121411	122122	+	1	41487041	41487151	+	650	0	98	718	
121411	122138	+	1	41701503	41701853	+	614	0	96	734	
123981	124776	-	1	41701503	41701853	+	763	0	99	799	
159244	160372	+	1	42092125	42092965	+	1129	0	100	1129	
26328	26577	-	2	808124	808242	+	194	2.20E-119	94	250	
23988	24252	+	2	808124	808242	+	265	1.50E-140	100	265	
32536	32814	-	2	814498	814605	+	255	3.50E-135	98	279	
106004	106116	+	2	815241	815386	+	104	1.70E-47	98	112	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
115659	115788	-	2	2392407	2393045	+	102	5.10E-48	95	130	
120855	121105	-	2	4905050	4905258	+	194	6.00E-119	94	250	
80978	81231	-	2	5483028	5483145	+	245	3.50E-131	99	253	
118515	118780	+	2	6171547	6171684	+	265	1.60E-140	100	265	
42787	42889	+	2	6171547	6171684	+	87	3.60E-37	96	103	
53454	53588	-	2	6172085	6172299	+	73	1.90E-46	88	137	
79710	79869	-	2	6697262	6697439	+	155	1.10E-124	99	159	
41909	42076	+	2	6697262	6697439	+	81	2.80E-37	87	173	
62020	62388	-	2	6997522	6997685	+	364	2.60E-201	100	368	
453008	453308	+	2	11195546	11196225	+	209	4.90E-108	92	301	
462941	463138	-	2	12183565	12183687	+	182	1.40E-88	98	198	
458280	458455	+	2	12183565	12183687	+	65	2.20E-70	84	185	
463083	463261	+	2	12183687	12183874	+	150	9.40E-75	96	178	
456384	456545	-	2	12183950	12184195	+	114	1.20E-51	93	162	
456384	456545	-	2	12184312	12184424	+	101	7.20E-42	91	161	
464210	464356	+	2	12184312	12184424	+	37	9.40E-37	81	153	
487458	487596	+	2	12184622	12184729	+	122	1.80E-57	97	138	
486298	486414	-	2	12184721	12184823	+	104	4.70E-44	97	116	
457957	458068	+	2	12184721	12184823	+	60	2.20E-70	88	112	
463485	463594	+	2	13403353	13403456	+	44	9.40E-37	85	112	
446258	446367	-	2	14191648	14191766	+	109	8.10E-50	100	109	
478876	478976	+	2	14191648	14191766	+	96	3.60E-42	99	100	
428681	428794	+	2	14202863	14203706	+	113	1.60E-52	100	113	
406320	406428	+	2	14202863	14203706	+	71	3.10E-203	90	115	
434577	434695	-	2	14210381	14210659	+	90	8.50E-75	94	118	
414344	414463	-	2	14210659	14211484	+	76	3.70E-141	91	120	
414344	414463	+	2	14211494	14211764	+	68	2.50E-72	89	120	
412377	412499	+	2	14211826	14212161	+	118	2.30E-55	99	122	
440670	440793	+	2	14214325	14214498	+	115	9.20E-56	98	123	
440655	440774	-	2	14215629	14215738	+	59	2.20E-70	87	123	
432504	432634	+	2	14216292	14217002	+	130	5.40E-63	100	130	
441028	441163	-	2	14216987	14218654	+	53	2.20E-70	85	137	
434662	434860	+	2	14218663	14220715	+	174	6.40E-91	97	198	
409563	409817	-	2	14220777	14221047	+	206	1.60E-107	95	254	
406434	406795	+	2	14221057	14222686	+	263	3.10E-203	93	363	
441301	442149	+	2	14222319	14222686	+	732	0	97	848	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
396526	396632	+	2	14223048	14223206	+	102	1.40E-46	99	106	
387663	387771	-	2	14223514	14223818	+	108	1.40E-51	100	108	
365171	365280	-	2	14690179	14690297	+	109	3.50E-52	100	109	
376870	376981	+	2	14690389	14690737	+	60	9.10E-71	88	112	
375297	375458	-	2	14690389	14690737	+	101	5.60E-43	91	161	
375297	375458	-	2	14889955	14890203	+	114	8.80E-52	93	162	
381996	382174	+	2	14889955	14890203	+	150	2.90E-74	96	178	
377193	377368	+	2	15425167	15425466	+	65	9.10E-71	84	185	
381854	382051	-	2	15425167	15425466	+	182	6.60E-90	98	198	
387660	387907	+	2	16001851	16001980	+	239	3.10E-128	99	247	
371921	372221	+	2	16001851	16001980	+	209	3.00E-108	92	301	
390599	390901	-	2	16001979	16002154	+	241	5.20E-130	95	305	
403054	403767	+	2	17521788	17521909	+	685	0	99	713	
347594	347707	+	2	17521788	17521909	+	113	3.80E-51	100	113	
356683	356797	+	2	17521788	17521909	+	110	1.70E-50	99	114	
359583	359706	+	2	17532060	17532168	+	115	1.00E-53	98	123	
359568	359687	-	2	17532060	17532168	+	59	2.20E-70	87	123	
351417	351547	+	2	17532362	17532543	+	130	2.10E-62	100	130	
359941	360076	-	2	17532362	17532543	+	53	2.20E-70	85	137	
328034	328210	+	2	17638993	17639123	+	156	8.20E-78	97	176	
353575	353773	+	2	17996550	17996678	+	174	6.40E-91	97	198	
360214	361062	+	2	18019756	18019855	+	732	0	97	848	
290625	292679	+	2	18019756	18019855	+	1994	0	99	2054	
288949	290617	+	2	18019979	18020090	+	1644	0	100	1668	
292957	294587	+	2	18561742	18561854	+	1586	0	99	1630	
292957	293783	-	2	18695390	18695562	+	814	0	100	826	
288272	288990	+	2	18695390	18695562	+	662	0	98	718	
299906	300554	+	2	19360550	19360746	+	480	4.90E-278	94	648	
292343	292679	-	2	19360550	19360746	+	328	0	99	336	
290867	291146	-	2	19360747	19360862	+	259	2.80E-138	98	279	
292677	292948	-	2	19360747	19360862	+	267	0	100	271	
292677	292948	+	2	19360923	19361079	+	263	0	99	271	
308245	308410	+	2	19360923	19361079	+	114	1.50E-52	92	166	
283423	283542	-	2	19361316	19361568	+	76	4.50E-83	91	120	
283423	283542	+	2	19361568	19361673	+	68	1.30E-61	89	120	
246083	246260	+	2	19552733	19552979	+	90	1.30E-84	88	178	

Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
247260	247370	+	2	20055594	20055714	+	47	1.30E-84	86	111	
256132	256263	-	2	20801010	20801263	+	123	7.10E-56	98	131	
256718	256929	-	2	20801010	20801263	+	199	6.10E-102	99	211	
261096	261341	+	2	20801010	20801263	+	226	1.30E-148	98	246	
266488	267170	+	2	20982992	20983123	+	535	9.80E-304	95	683	
274242	274595	-	2	21793103	21793217	+	269	8.60E-145	94	353	
276093	276250	-	2	21793237	21793597	+	149	1.80E-73	99	157	
278648	278902	-	2	22083891	22084087	+	206	5.50E-110	95	254	
280767	280882	-	2	22083891	22084087	+	115	1.50E-53	100	115	
281462	281584	+	2	22267960	22268170	+	118	1.50E-57	99	122	
204944	207679	-	2	22268497	22269209	+	100	5.50E-44	92	148	
210568	218908	-	2	23376854	23377014	+	107	2.30E-45	97	123	
210656	219065	-	2	23376854	23377014	+	84	6.90E-34	95	104	
215110	228222	-	2	23395972	23396132	+	269	6.70E-144	94	353	
216961	231728	-	2	23395972	23396132	+	149	1.40E-76	99	157	
219516	236935	-	2	24838531	24838646	+	203	9.60E-106	95	255	
221635	241034	-	2	24838648	24838757	+	115	3.90E-54	100	115	
222330	242431	+	2	25578311	25578433	+	118	4.90E-55	99	122	
225835	249543	-	2	26390036	26390143	+	194	7.70E-101	96	226	
229649	257167	-	2	27618357	27618634	+	180	1.30E-90	95	220	
241098	280033	+	2	27618357	27618634	+	153	2.10E-77	95	189	
200622	200729	+	2	28116937	28117084	+	96	7.70E-41	97	108	
200809	200919	-	2	29605666	29605890	+	102	1.00E-64	98	110	
163197	163313	-	2	31969066	31969194	+	104	2.40E-49	97	116	
197418	197537	+	2	32109099	32109207	+	103	2.50E-45	97	119	
199433	199553	+	2	32109099	32109207	+	80	2.80E-31	92	120	
191397	191526	+	2	33180076	33180188	+	109	3.60E-48	96	129	
164357	164495	+	2	33776806	33776920	+	122	6.20E-60	97	138	
177993	178201	+	2	33776806	33776920	+	186	2.80E-96	97	210	
155775	155874	+	2	35404082	35404346	+	96	2.60E-42	99	100	
137314	137415	+	2	35404082	35404346	+	87	6.80E-55	96	103	
126209	126320	-	2	35784625	35784759	+	109	6.40E-50	99	113	
125713	125837	-	2	35784625	35784759	+	77	2.20E-32	90	125	
136436	136602	+	2	35784945	35785065	+	81	8.20E-37	87	173	
127063	127341	-	2	35784945	35785065	+	255	3.70E-137	98	279	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
2869	2974	+	3	1739035	1739139	-	98	1.60E-42	98	106	
28155	28309	+	3	2286721	2286963	-	139	0	97	155	
32257	32416	-	3	2286721	2286963	-	109	6.10E-62	92	161	
29734	29898	-	3	3636687	3636800	-	98	4.20E-64	90	166	
35109	35276	+	3	3789741	3789849	+	160	6.00E-82	99	168	
21060	21232	+	3	4991113	4991351	+	165	1.50E-83	99	173	
34157	34331	-	3	4991444	4991693	+	171	2.70E-85	99	175	
9468	9645	-	3	4991902	4992149	+	154	1.90E-75	97	178	
30796	30971	-	3	4991902	4992149	+	91	3.80E-84	88	179	
5849	6030	+	3	4993639	4993921	+	159	3.30E-182	97	183	
30571	30770	-	3	4993639	4993921	+	95	3.80E-84	87	203	
32190	32393	-	3	4993928	4994031	+	200	2.40E-102	100	204	
14427	14643	+	3	4993928	4994031	+	205	5.50E-108	99	217	
5623	5851	+	3	5169428	5169544	-	193	3.30E-182	96	229	
27609	27844	-	3	5340992	5341165	+	216	0	98	236	
25585	25838	-	3	5341168	5341272	+	185	0	93	261	
29637	29918	-	3	5341273	5341377	+	255	4.00E-147	98	283	
31136	31524	-	3	5341378	5342360	+	373	6.20E-206	99	389	
5357	5753	+	3	5341378	5342360	+	381	2.10E-304	99	397	
16693	17167	+	3	6657135	6657289	+	471	0	100	475	
25834	26324	-	3	6953428	6953749	+	443	0	97	495	
26328	27611	-	3	7561828	7562216	+	1206	0	98	1290	
108318	108421	-	3	7561828	7562216	+	95	9.70E-42	98	103	
97396	97502	+	3	10119489	10119651	+	98	5.30E-42	98	106	
93349	93463	+	3	10119489	10119651	+	70	1.40E-36	90	114	
82804	82944	-	3	10119720	10119830	+	140	2.60E-138	100	140	
88891	89052	+	3	10119980	10120102	+	125	1.80E-59	94	161	
115587	115760	+	3	10885002	10885153	-	165	1.00E-84	99	173	
103995	104173	-	3	10885148	10885250	-	154	1.90E-75	97	178	
100376	100558	+	3	10885251	10885744	-	159	3.00E-183	97	183	
108954	109171	+	3	10885745	10886036	-	205	3.30E-106	99	217	
100150	100379	+	3	10886038	10886204	-	193	3.00E-183	96	229	
120112	120366	-	3	10886263	10888445	-	185	0	93	261	
83749	84041	-	3	10887527	10887976	-	284	1.90E-152	99	292	
88264	88583	-	3	11653139	11653285	+	319	0	100	319	
99884	100281	+	3	13628482	13628610	+	381	2.50E-209	99	397	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
111220	111695	+	3	13628482	13628610	+	471	1.10E-262	100	475	
120361	120852	-	3	13628611	13629049	+	443	0	97	495	
120855	121411	-	3	13628611	13629049	+	536	0	99	556	
55379	55484	+	3	13629046	13629348	+	105	2.30E-185	100	105	
60973	61078	+	3	13629046	13629348	+	101	2.30E-185	99	105	
77566	77673	+	3	13629445	13629588	+	64	3.70E-140	90	108	
52224	52334	+	3	13629589	13629756	+	110	0	100	110	
52375	52497	+	3	13629589	13629756	+	122	0	100	122	
63740	63872	-	3	13629754	13630082	+	99	8.30E-43	93	135	
69084	69241	+	3	13630236	13630513	+	157	2.20E-78	100	157	
55379	55546	+	3	13630514	13630988	+	163	2.10E-101	99	167	
55214	55388	+	3	13630514	13630988	+	170	2.30E-185	99	174	
73711	73891	-	3	13631083	13631213	+	118	2.60E-53	91	182	
70951	71143	-	3	13631213	13631609	+	153	1.00E-76	95	193	
62304	62502	+	3	13631213	13631609	+	167	3.00E-93	96	199	
66596	66812	-	3	13631607	13631921	+	127	1.90E-62	90	219	
70660	70938	+	3	13632241	13632751	+	258	5.70E-141	98	278	
48148	48477	-	3	13632241	13632751	+	309	1.40E-166	98	329	
62439	62842	+	3	13632850	13633180	+	399	0	100	403	
77152	77556	+	3	13632850	13633180	+	211	3.70E-140	88	407	
53540	53985	+	3	13633256	13633459	+	445	0	100	445	
61473	63656	+	3	13633256	13633459	+	2091	0	99	2183	
459451	459959	+	3	13633457	13633648	+	487	7.40E-274	99	511	
448354	448793	-	3	13633457	13633648	+	427	6.10E-246	99	439	
447883	448313	+	3	13633747	13634068	+	354	0	96	430	
448330	448759	+	3	13634789	13634943	+	306	0	93	430	
454938	455267	-	3	13634789	13634943	+	241	3.20E-126	93	333	
475159	475429	+	3	13634947	13635073	+	102	5.80E-58	84	282	
464481	464736	+	3	13635282	13635387	+	140	3.70E-68	89	256	
455085	455333	+	3	13635282	13635387	+	244	1.40E-132	100	248	
447140	447359	-	3	13635442	13635597	+	140	1.70E-69	91	220	
472392	472604	-	3	13635878	13636085	+	208	1.10E-107	100	212	
471287	471478	+	3	13636577	13636751	+	191	3.70E-98	100	191	
462763	462926	-	3	13636577	13636751	+	159	2.10E-79	99	163	
463749	463906	-	3	13636750	13636889	+	53	3.70E-89	83	161	
464209	464356	-	3	13636984	13637185	+	50	3.70E-89	83	154	

Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
464209	464356	-	3	13637208	13637333	+	50	3.70E-89	83	154	
465868	466011	+	3	13637442	13637640	+	115	1.70E-53	95	143	
486201	486318	+	3	13698334	13698457	+	97	9.30E-39	96	117	
463485	463594	-	3	14857596	14857722	+	48	3.70E-89	86	112	
475363	475473	+	3	15310314	15310651	-	67	1.10E-24	90	111	
475363	475473	-	3	16388086	16388268	+	59	2.90E-25	88	111	
458953	459061	+	3	16388742	16388936	+	104	3.70E-49	99	108	
461439	461543	-	3	16389372	16389597	+	96	1.10E-42	98	104	
421524	421629	+	3	17488193	17488352	+	89	3.90E-39	96	105	
407609	407717	+	3	17488193	17488352	+	94	6.60E-72	96	110	
438724	438833	+	3	17598579	17598744	-	90	1.20E-66	95	110	
407161	407276	+	3	17598579	17598744	-	115	1.20E-54	100	115	
412749	412864	+	3	17776872	17777200	-	111	0	99	115	
440892	441015	+	3	17776872	17777200	-	77	6.50E-105	90	125	
425955	426085	-	3	18108764	18108912	-	126	8.40E-256	99	130	
414647	414792	+	3	18108906	18109067	-	133	0	98	145	
440594	440774	+	3	18359419	18359716	+	139	6.50E-105	94	183	
417756	417941	+	3	18565302	18565423	-	185	1.30E-95	100	185	
433937	434129	-	3	18565302	18565423	-	176	7.70E-88	98	192	
407127	407330	+	3	18565485	18565666	-	180	0	97	204	
404814	405022	+	3	18565485	18565666	-	194	2.50E-100	98	208	
412865	413099	+	3	21177471	21177571	-	183	0	94	235	
404939	405174	-	3	21389688	21389884	+	197	7.30E-101	95	239	
434057	434300	+	3	22049746	22049863	-	243	1.90E-129	100	243	
411073	411324	+	3	22430701	22430860	-	224	0	97	252	
415236	415539	-	3	23617557	23617902	-	291	8.40E-256	99	303	
409616	409919	-	3	23617557	23617902	-	291	1.20E-156	99	303	
407297	407617	+	3	23617917	23618061	-	182	3.00E-91	89	326	
431676	432007	+	3	23617917	23618061	-	327	6.00E-255	100	331	
414802	415149	+	3	23618061	23619133	-	307	0	97	347	
441735	442138	+	3	23618061	23618607	-	240	1.00E-127	90	404	
413101	413672	+	3	23618611	23619133	-	507	0	97	571	
406405	407134	+	3	23619131	23619701	-	625	0	96	731	
413687	414762	+	3	23619131	23619701	-	951	0	97	1075	
411337	412738	+	3	23619444	23619701	-	1301	0	98	1401	
377866	377974	+	3	23619712	23619945	-	104	3.30E-49	99	108	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
382398	382507	-	3	23619712	23619945	-	48	1.00E-89	86	112	
400794	400912	-	3	23619712	23619945	-	102	7.10E-46	97	118	
384781	384924	+	3	23619956	23620070	-	115	1.40E-53	95	143	
404224	404368	+	3	23619956	23620070	-	140	2.60E-68	99	144	
383122	383269	-	3	23619956	23620070	-	50	1.00E-89	83	154	
383122	383269	-	3	23620101	23621497	-	50	1.00E-89	83	154	
382662	382819	-	3	23620101	23621497	-	53	1.00E-89	83	161	
381676	381839	-	3	23620101	23621497	-	159	2.70E-80	99	163	
401114	401320	-	3	23620128	23620305	-	202	2.50E-102	100	206	
366053	366272	-	3	23620128	23620305	-	140	1.90E-65	91	220	
373998	374246	+	3	23620219	23620355	-	244	5.00E-130	100	248	
383394	383649	+	3	23621511	23621762	-	140	2.90E-68	89	256	
373851	374180	-	3	23621511	23621762	-	241	3.30E-127	93	333	
366796	367226	+	3	23621511	23621762	-	354	0	96	430	
367243	367672	+	3	23687923	23688031	-	306	0	93	430	
367267	367706	-	3	24150698	24150847	-	427	7.00E-245	99	439	
378364	378872	+	3	24487446	24487841	-	487	2.00E-277	99	511	
340437	340542	+	3	24487446	24487841	-	89	3.50E-163	96	105	
357637	357746	+	3	24709820	24710003	+	90	1.20E-67	95	110	
359805	359928	+	3	25689520	25689662	-	77	6.40E-105	90	125	
331726	331853	-	3	25689520	25689662	-	119	1.90E-155	98	127	
344868	344998	-	3	25691867	25692078	-	126	1.90E-155	99	130	
359020	359150	+	3	25691867	25692078	-	82	8.20E-41	91	130	
332113	332260	+	3	25691867	25692078	-	139	1.10E-67	99	147	
339718	339874	-	3	25692084	25692386	-	120	2.30E-54	94	156	
331834	332015	-	3	25692084	25692386	-	173	1.30E-86	99	181	
359507	359687	+	3	25692084	25692386	-	139	6.40E-105	94	183	
329900	330085	-	3	25758184	25758365	-	86	9.60E-51	86	190	
352850	353042	-	3	26475857	26476285	+	176	2.20E-149	98	192	
352970	353213	+	3	26475857	26476285	+	243	1.90E-129	100	243	
335244	335496	+	3	26476292	26476720	+	232	3.50E-163	98	252	
350589	350920	+	3	26476292	26476720	+	327	2.30E-254	100	331	
324601	324969	+	3	26560795	26561158	-	285	2.10E-154	94	369	
360648	361051	+	3	26698098	26698310	+	240	7.70E-126	90	404	
283294	283841	+	3	26698098	26698310	+	483	0	97	547	
314254	314748	+	3	26848848	26849019	+	478	3.40E-269	99	494	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
294215	294665	-	3	26848848	26849019	+	434	7.50E-241	99	450	
283881	284228	+	3	27041648	27041864	-	307	0	97	347	
284315	284618	-	3	27041648	27041864	-	291	6.10E-158	99	303	
311960	312191	-	3	27257790	27257981	-	171	3.90E-89	94	231	
293137	293336	-	3	27565835	27566563	+	195	6.40E-101	100	199	
286852	287038	+	3	27566566	27566766	+	186	1.30E-95	100	186	
299985	300155	+	3	27802706	27802846	-	108	3.90E-57	91	172	
291953	292115	-	3	28350811	28351012	-	154	1.90E-75	99	162	
322785	322937	-	3	28350811	28351012	-	144	2.50E-71	99	152	
316460	316609	+	3	28351034	28351211	-	141	6.70E-69	99	149	
283726	283871	+	3	28351034	28351211	-	133	1.40E-236	98	145	
247616	247931	+	3	28575795	28575960	-	303	0	99	315	
248007	248331	+	3	28575961	28576221	-	222	3.00E-176	92	326	
248341	248484	+	3	28575961	28576221	-	117	3.00E-176	95	145	
250142	250480	-	3	28656415	28656571	-	159	7.80E-79	87	343	
258080	258402	+	3	28656765	28656874	-	318	0	100	322	
258703	258905	+	3	28657092	28657199	+	186	0	98	202	
269019	269156	+	3	28667221	28667623	+	133	0	99	137	
271116	271437	-	3	28667623	28667729	+	297	2.00E-159	98	321	
273498	273654	-	3	28667735	28667950	+	140	1.90E-86	97	156	
274947	275209	-	3	28668137	28668267	+	242	3.10E-129	98	262	
276499	276628	-	3	28668268	28668473	+	121	1.20E-55	98	129	
277183	278162	-	3	28827464	28827578	-	913	0	98	985	
277427	277569	-	3	28828403	28828544	-	138	2.40E-65	99	142	
278701	279004	-	3	28828403	28828544	-	291	4.50E-156	99	303	
280158	280409	+	3	29589480	29589645	-	224	0	97	252	
280422	281823	+	3	30600192	30600512	-	1301	0	98	1401	
281834	281949	+	3	31097649	31097924	-	111	0	99	115	
281950	282184	+	3	31097649	31097924	-	183	0	94	235	
282186	282757	+	3	31137359	31137468	-	507	0	97	571	
282772	283297	+	3	31137359	31137468	-	469	0	97	525	
205569	208913	-	3	31141479	31141587	-	122	7.00E-98	99	126	
206227	210315	+	3	31141479	31141587	-	208	4.20E-108	100	212	
207353	212531	-	3	31293106	31293222	-	176	4.10E-92	100	176	
208298	214411	+	3	31293106	31293222	-	158	4.30E-77	99	166	
208611	214995	-	3	31293289	31293392	-	108	2.90E-48	97	124	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
209603	217093	+	3	31746266	31746410	-	238	1.80E-126	100	238	
209856	217492	+	3	31746411	31746731	-	127	4.20E-104	99	131	
215815	229541	-	3	31750559	31751753	-	242	1.10E-124	98	262	
217367	232512	-	3	31751754	31751991	-	121	1.50E-56	98	129	
218051	234730	-	3	31752249	31752651	-	913	0	98	985	
218295	234381	-	3	31754650	31754757	-	138	1.10E-67	99	142	
219569	237090	-	3	31754650	31754757	-	287	2.30E-166	99	303	
221026	239952	+	3	31754916	31755072	-	224	0	97	252	
221134	240017	+	3	31754916	31755072	-	81	4.80E-33	95	101	
221290	241630	+	3	31755392	31755538	-	1301	0	98	1401	
222702	243168	+	3	31755392	31755538	-	111	0	99	115	
222818	243519	+	3	31756524	31756670	-	183	0	94	235	
223054	244015	+	3	31756524	31756670	-	222	0	97	258	
229054	255907	+	3	31758821	31758942	-	150	1.70E-73	100	150	
230079	257938	+	3	31758984	31759093	-	131	1.20E-60	100	131	
171303	171407	+	3	31759101	31759419	-	65	4.70E-24	90	105	
163202	163311	+	3	31759414	31759858	-	59	4.00E-21	88	111	
173472	173580	+	3	31760100	31760359	-	48	5.60E-21	86	112	
163100	163217	+	3	31760100	31760359	-	97	3.80E-44	96	117	
194252	194375	+	3	31760367	31760860	-	111	3.30E-51	98	123	
194089	194255	-	3	31760367	31760860	-	150	1.70E-72	98	166	
170744	170927	-	3	31760873	31762160	-	175	4.40E-89	99	183	
179586	179781	+	3	31760873	31761428	-	145	4.40E-76	93	197	
171047	171345	-	3	31761429	31762160	-	103	1.90E-46	84	303	
189815	191010	+	3	31762165	31762400	-	1191	0	100	1195	
130662	130769	+	3	31762165	31762400	-	104	5.30E-47	99	108	
123492	123602	+	3	31762455	31762645	-	107	7.60E-49	99	111	
152262	152371	+	3	31762455	31762630	-	67	2.30E-24	90	111	
152262	152371	-	3	31762455	31762645	-	59	1.70E-25	88	111	
125960	126076	+	3	31762699	31762883	-	82	2.10E-32	92	118	
125730	125875	-	3	31762884	31763069	-	83	2.60E-35	89	147	
122682	122836	+	3	32590379	32590513	+	139	1.70E-89	97	155	
126784	126943	-	3	32984963	32985217	-	109	2.40E-61	92	161	
124261	124425	-	3	32984963	32985217	-	98	2.40E-63	90	166	
129636	129803	+	3	33189242	33189421	-	160	3.60E-81	99	168	
128684	128858	-	3	33481226	33481335	-	171	2.00E-91	99	175	





Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
125323	125498	-	3	33481226	33481335	-	91	4.30E-86	88	179	
148186	148376	+	3	33745000	33745107	+	191	6.00E-98	100	191	
125098	125297	-	3	33745000	33745107	+	95	4.30E-86	87	203	
126717	126920	-	3	34439100	34439263	+	200	1.20E-108	100	204	
149291	149502	-	3	35364834	35365062	+	208	6.60E-108	100	212	
122136	122371	-	3	35364834	35365062	+	216	0	98	236	
152058	152327	+	3	35365222	35365404	+	102	1.30E-57	84	282	
124164	124445	-	3	35365222	35365404	+	255	5.20E-152	98	283	
125663	126051	-	3	35544123	35544251	-	373	6.80E-209	99	389	
121411	122138	-	3	35544123	35544251	-	670	0	98	734	
32315	32416	+	4	251412	251513	+	102	4.90E-55	100	102	
15228	15340	+	4	251412	251513	+	93	7.30E-39	96	113	
1901	2031	-	4	257593	257693	+	127	1.20E-59	99	131	
26846	26979	-	4	1818101	1818392	+	45	1.10E-70	83	137	
32426	32594	-	4	1818101	1818392	+	153	0	98	169	
32425	32594	-	4	1818422	1818556	+	158	0	98	170	
32425	32594	+	4	1847053	1847243	+	158	0	98	170	
32425	32594	-	4	2072348	2072505	+	158	0	98	170	
9468	9645	-	4	2072348	2072505	+	174	3.90E-87	99	178	
30570	30772	+	4	2072576	2072706	+	191	0	99	203	
30570	30772	-	4	2072576	2072706	+	191	0	99	203	
30570	30772	-	4	2072896	2073032	+	191	0	99	203	
30570	30772	-	4	2072896	2073032	+	175	0	97	203	
19979	20184	-	4	2073214	2073430	+	142	3.60E-71	92	206	
27005	27295	-	4	2283513	2284008	+	117	1.10E-70	85	297	
31194	31503	-	4	4840948	4841139	+	209	2.50E-107	92	313	
31662	32036	-	4	5026829	5027029	+	189	1.10E-97	88	377	
30772	32416	-	4	5027043	5027167	+	1633	0	100	1645	
30772	32416	+	4	5106278	5106395	+	1633	0	100	1645	
30772	32416	-	4	5515488	5515752	+	1629	0	100	1645	
30772	32416	-	4	5526057	5526318	+	1577	0	99	1645	
109755	109868	+	4	7395049	7395421	+	93	1.00E-37	96	113	
96428	96559	-	4	7395049	7395421	+	127	3.90E-175	99	131	
88496	88656	+	4	8153153	8153258	+	109	7.00E-50	92	161	
103995	104173	-	4	8153153	8153258	+	174	9.00E-95	99	178	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
114506	114712	-	4	8153634	8153775	+	142	3.70E-71	92	206	
92308	92525	-	4	8153634	8153775	+	213	3.90E-175	100	217	
87610	88090	-	4	8153780	8153894	+	468	5.40E-262	99	480	
49295	49408	+	4	8153780	8153894	+	113	1.00E-76	100	113	
49295	49408	+	4	8907662	8907780	+	113	3.20E-77	100	113	
79710	79869	+	4	8907662	8907780	+	155	4.60E-162	99	159	
56357	56590	+	4	8912464	8912571	+	217	1.10E-110	98	233	
54751	55013	-	4	8912464	8912571	+	198	2.50E-101	94	262	
54751	55016	-	4	8912730	8912886	+	213	4.50E-108	95	265	
79884	80181	+	4	8912730	8912886	+	206	2.50E-110	92	302	
62020	62388	+	4	8913206	8913352	+	364	2.60E-247	100	368	
50801	51298	+	4	8913206	8913352	+	437	3.10E-243	97	497	
78009	78526	+	4	8925515	8925719	+	347	1.70E-221	92	519	
485157	487596	-	4	8925515	8925719	+	2352	0	99	2440	
483465	485048	-	4	8925872	8926072	+	1535	0	99	1583	
452880	453414	-	4	8925872	8926072	+	534	2.20E-299	100	534	
484341	484636	+	4	8926417	8926958	+	295	7.30E-163	100	295	
480069	480305	-	4	8926417	8926958	+	228	1.50E-117	99	236	
463749	463906	+	4	8928569	8928698	+	53	3.20E-90	83	161	
463749	463906	+	4	8928569	8928698	+	53	1.20E-89	83	161	
463749	463906	+	4	8934146	8934366	+	53	5.00E-91	83	161	
464209	464356	+	4	8934381	8934579	+	50	5.00E-91	83	154	
464209	464356	+	4	8937018	8937807	+	50	3.20E-90	83	154	
464209	464356	+	4	8937810	8938009	+	46	1.20E-89	82	154	
458725	458872	+	4	8946011	8946215	+	139	2.80E-68	99	147	
453006	453148	-	4	8946011	8946215	+	56	1.80E-72	85	144	
457813	457949	-	4	8946368	8946568	+	132	1.00E-60	99	136	
452882	452997	-	4	8946368	8946568	+	67	1.80E-72	90	115	
463485	463594	+	4	8946914	8947455	+	48	1.20E-89	86	112	
463485	463594	+	4	8946914	8947455	+	48	5.00E-91	86	112	
463485	463594	+	4	8948057	8948291	+	48	3.20E-90	86	112	
452963	453068	+	4	8948057	8948291	+	55	1.80E-46	88	107	
447646	447747	+	4	8950115	8950284	+	70	8.30E-43	92	102	
427188	427301	-	4	8950115	8950284	+	109	5.10E-95	99	113	
427188	427302	-	4	8950293	8951937	+	102	1.40E-100	97	118	
414344	414463	-	4	8950293	8951937	+	80	4.40E-122	92	120	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
414344	414463	-	4	8951945	8952147	+	80	1.10E-196	92	120	
414344	414463	-	4	8951945	8952147	+	80	6.00E-126	92	120	
414344	414463	-	4	8964736	8964938	+	80	6.10E-115	92	120	
440892	441015	+	4	8964736	8964938	+	89	7.80E-109	93	125	
406534	406659	+	4	8964946	8966590	+	77	5.10E-84	90	125	
440107	440237	+	4	8964946	8966590	+	94	0	93	130	
424410	424542	-	4	8966599	8966768	+	116	8.60E-64	97	132	
439730	439863	+	4	8966599	8966768	+	129	8.80E-62	99	133	
414613	414750	-	4	8969974	8970163	+	133	9.10E-121	99	137	
412725	412864	+	4	8974880	8975588	+	127	0	98	139	
412481	412624	+	4	8984065	8984183	+	131	0	98	143	
408190	408341	-	4	8984065	8984183	+	147	6.30E-189	99	151	
436304	436471	-	4	8991104	8991273	+	96	1.10E-196	89	168	
434481	434652	+	4	8991104	8991273	+	171	1.20E-83	100	171	
434481	434652	+	4	8991282	8992926	+	163	6.10E-82	99	171	
440594	440774	+	4	8991282	8992926	+	134	7.80E-109	93	182	
421589	421787	+	4	8992934	8993136	+	190	1.30E-98	99	198	
438838	439040	+	4	8992934	8993136	+	142	0	93	202	
438838	439040	+	4	9002493	9002611	+	142	0	93	202	
406346	406548	+	4	9002493	9002611	+	106	5.10E-84	88	202	
407127	407330	+	4	9007297	9007404	+	187	0	98	203	
438442	438644	+	4	9007297	9007404	+	109	0	88	209	
438442	438644	+	4	9007563	9007719	+	109	0	88	209	
411513	411736	+	4	9007563	9007719	+	159	6.00E-101	93	223	
407952	408182	-	4	9008039	9008185	+	218	6.30E-189	99	230	
439318	439556	-	4	9008039	9008185	+	129	5.40E-70	88	241	
441362	441695	+	4	9025139	9025443	+	286	7.50E-155	96	334	
411337	411693	+	4	9025751	9025909	+	348	0	99	356	
414359	414792	+	4	9026271	9026638	+	429	0	100	433	
439318	439863	+	4	9026271	9027900	+	293	0	88	549	
439318	439863	+	4	9027910	9028180	+	293	0	88	549	
406344	407134	+	4	9028242	9030294	+	709	0	97	791	
410371	411324	+	4	9030303	9031970	+	929	0	99	953	
411687	412738	+	4	9031955	9032854	+	1003	0	99	1051	
412862	414287	+	4	9032859	9033019	+	1369	0	99	1425	
414800	417091	+	4	9032964	9033129	+	2209	0	99	2291	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
366559	366660	+	4	9032964	9033129	+	70	1.70E-43	92	102	
371876	371981	+	4	9035943	9036116	+	55	3.60E-47	88	107	
382398	382507	+	4	9037248	9037357	+	48	4.60E-92	86	112	
382398	382507	+	4	9043093	9043211	+	48	1.20E-91	86	112	
382398	382507	+	4	9043093	9043211	+	48	4.80E-226	86	112	
371795	371910	-	4	9047897	9048004	+	67	7.10E-74	90	115	
376726	376862	-	4	9047897	9048004	+	132	6.80E-66	99	136	
371919	372061	-	4	9048163	9048319	+	56	7.10E-74	85	144	
377638	377785	+	4	9048163	9048319	+	139	4.60E-70	99	147	
383122	383269	+	4	9048639	9048785	+	50	4.60E-92	83	154	
383122	383269	+	4	9048639	9048785	+	50	1.20E-91	83	154	
383122	383269	+	4	9527976	9528088	+	46	4.80E-226	82	154	
382662	382819	+	4	9528138	9528308	+	53	1.20E-91	83	161	
382662	382819	+	4	9528138	9528308	+	53	4.60E-92	83	161	
382662	382819	+	4	9528472	9528584	+	53	4.80E-226	83	161	
388757	388961	-	4	9528472	9528584	+	200	7.20E-102	100	204	
390599	390901	+	4	9690679	9690810	+	245	4.80E-226	95	305	
390599	390901	-	4	9690679	9690810	+	213	9.00E-112	92	309	
395715	396033	+	4	9690844	9691040	+	278	2.30E-149	97	318	
371793	372327	-	4	10784387	10784902	+	534	2.00E-301	100	534	
395692	396401	-	4	10784978	10785251	+	673	0	99	709	
351546	351652	-	4	10881448	10881756	+	106	2.10E-46	100	106	
346101	346214	-	4	10968758	10968896	+	109	5.10E-95	99	113	
335321	335437	-	4	11007866	11007969	+	112	9.50E-52	99	116	
360333	360448	+	4	11117281	11117482	+	53	5.10E-42	86	117	
346101	346215	-	4	11117487	11117662	+	102	1.40E-100	97	118	
360467	360584	+	4	11472173	11472278	+	61	5.10E-42	88	121	
359805	359928	+	4	12376082	12376615	+	89	7.70E-109	93	125	
359020	359150	+	4	12376082	12376615	+	94	0	93	130	
343323	343455	-	4	13435539	13435872	+	116	4.80E-62	97	132	
358643	358776	+	4	13435539	13435872	+	129	7.00E-62	99	133	
355217	355384	-	4	13661538	13661832	+	96	6.10E-73	89	168	
353394	353565	+	4	13824125	13824242	-	171	5.50E-85	100	171	
353394	353565	+	4	13824125	13824242	-	163	6.00E-82	99	171	
359507	359687	+	4	13824406	13824576	-	134	7.70E-109	93	182	
329900	330091	+	4	13824406	13824576	-	92	5.90E-49	87	196	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
324211	324408	+	4	13824626	13824738	-	185	1.70E-94	98	197	
340502	340700	+	4	14044424	14044733	+	190	1.20E-98	99	198	
357751	357953	+	4	14044424	14044733	+	142	0	93	202	
357751	357953	+	4	14207065	14207359	+	142	0	93	202	
357355	357557	+	4	14207065	14207359	+	109	0	88	209	
357355	357557	+	4	15081254	15081386	+	109	0	88	209	
336101	336326	-	4	15081317	15081543	+	193	6.70E-100	96	225	
358231	358469	-	4	15678501	15678976	+	129	1.00E-60	88	241	
360275	360608	+	4	15946318	15946761	+	286	7.40E-155	96	334	
358231	358776	+	4	16148981	16149186	+	293	0	88	549	
358231	358776	+	4	16148981	16149186	+	293	0	88	549	
290625	292679	-	4	16149197	16149297	+	1999	0	99	2055	
283879	285573	+	4	16149197	16149297	+	1650	0	99	1694	
288949	290617	-	4	16149460	16149572	+	1644	0	100	1668	
292957	294587	-	4	16149460	16149572	+	1606	0	100	1630	
307848	309345	+	4	16149567	16149726	+	1362	0	98	1498	
310420	311585	+	4	17833229	17833361	+	1134	0	99	1166	
288083	288990	-	4	17833229	17833361	+	843	0	98	907	
311613	312465	+	4	17859505	17859822	+	828	0	99	852	
309354	310081	+	4	18370703	18370875	+	614	0	96	730	
283438	283871	+	4	18388608	18388732	+	429	0	100	433	
289301	289689	-	4	18637619	18637827	+	376	1.60E-208	99	388	
292957	293271	+	4	18708289	18708389	+	310	0	100	314	
307533	307839	+	4	19565504	19565726	+	302	0	100	306	
293899	294192	-	4	19565504	19565726	+	229	1.10E-123	95	293	
296665	296937	+	4	19565504	19565726	+	178	6.50E-89	91	274	
292677	292948	-	4	20107620	20107723	+	267	0	100	271	
292677	292948	+	4	20200106	20200241	+	255	0	99	271	
289462	289697	+	4	20200106	20200241	+	133	1.70E-66	89	237	
292249	292449	+	4	20628579	20628759	+	143	1.00E-124	93	203	
292474	292647	+	4	20628579	20628759	+	116	1.00E-124	91	176	
307350	307525	+	4	20628822	20628946	+	163	0	98	175	
321781	321953	+	4	20628822	20628946	+	123	8.20E-93	93	175	
287933	288094	-	4	21426583	21426704	+	161	0	100	161	
289398	289534	+	4	21798958	21799154	+	87	4.40E-39	91	139	
283692	283829	-	4	21798958	21799154	+	133	3.20E-64	99	137	

Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
310091	310222	+	4	22447109	22447401	+	119	0	98	131	
283423	283542	-	4	22782269	22782376	+	80	0	92	120	
283423	283542	-	4	22825217	22825332	+	80	1.10E-87	92	120	
283423	283542	-	4	23268276	23268391	+	80	4.00E-85	92	120	
283423	283542	-	4	23268846	23269116	+	80	1.10E-85	92	120	
283423	283539	+	4	23269126	23269439	+	70	0	90	118	
246083	246260	+	4	23278537	23278705	+	86	7.40E-87	87	178	
247260	247370	+	4	23278537	23278705	+	47	7.40E-87	86	111	
254890	255101	+	4	23278715	23280358	+	148	1.50E-77	92	216	
257830	257981	-	4	23278715	23280358	+	143	0	99	151	
258080	258887	-	4	23280366	23280568	+	783	0	99	807	
258901	260492	-	4	23280366	23280568	+	1555	0	99	1591	
260492	261446	-	4	24293682	24293828	+	902	0	99	954	
261464	262608	-	4	24293682	24293828	+	1100	0	99	1144	
265281	265471	-	4	24586395	24586598	+	164	6.00E-80	96	192	
265287	265413	+	4	25973650	25973766	+	118	3.70E-54	98	126	
267343	267535	-	4	25973765	25973884	+	108	2.50E-49	89	196	
268296	268494	-	4	27097254	27097486	+	143	2.00E-198	93	199	
268508	268729	-	4	27133310	27133697	+	193	2.00E-198	97	221	
268626	270116	+	4	27248014	27248164	+	1434	0	99	1490	
269019	269162	+	4	27248175	27248404	+	139	0	99	143	
269191	269397	-	4	30017409	30017888	+	145	9.60E-72	92	209	
270124	271851	+	4	30706767	30707002	+	1671	0	99	1727	
271912	273654	+	4	30706767	30707002	+	1666	0	99	1742	
274921	275025	+	4	32431757	32433242	+	37	5.20E-07	84	105	
276453	276611	-	4	32432150	32432292	+	154	5.30E-79	99	158	
279456	280409	+	4	32432150	32432292	+	925	0	99	953	
280422	280778	+	4	32432150	32432292	+	348	0	99	356	
280598	280821	+	4	32433243	32434969	+	159	2.30E-100	93	223	
280772	281823	+	4	32435029	32436764	+	1003	0	99	1051	
281566	281709	+	4	32437696	32438839	+	131	0	98	143	
281810	281949	+	4	32438839	32439792	+	127	0	98	139	
281947	283297	+	4	32439804	32441392	+	1298	0	99	1350	
282917	283035	+	4	32441384	32442190	+	90	9.90E-39	94	118	
212337	222766	-	4	32442303	32442453	+	387	8.40E-214	97	447	
217321	232449	-	4	32442454	32442627	+	154	1.90E-94	99	158	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
220324	239250	+	4	32442636	32442941	+	929	0	99	953	
221290	240585	+	4	32442950	32444444	+	348	0	99	356	
221466	240804	+	4	32444457	32445179	+	159	9.00E-100	93	223	
221640	241980	+	4	32445190	32445319	+	1003	0	99	1051	
222434	242660	+	4	32445316	32446480	+	131	0	98	143	
222678	243144	+	4	32446473	32447324	+	127	0	98	139	
222815	243776	+	4	32447570	32450005	+	485	0	99	497	
229792	257355	-	4	32447570	32450005	+	110	7.90E-48	98	122	
238535	275194	+	4	32450001	32451582	+	226	5.60E-118	87	482	
168039	168140	+	4	32450067	32451582	+	65	1.60E-47	91	101	
196824	196928	+	4	32451573	32452524	+	104	1.20E-45	100	104	
177056	177162	-	4	32451573	32452524	+	78	1.60E-89	93	106	
165686	165800	+	4	32451573	32452524	+	54	9.90E-29	87	114	
177207	177346	-	4	32452539	32452894	+	115	1.60E-89	96	139	
179166	179325	-	4	32452539	32452894	+	143	4.00E-67	97	159	
162056	164495	-	4	32452539	32452894	+	2352	0	99	2440	
126842	126943	+	4	32455870	32456918	+	102	1.90E-54	100	102	
126953	127121	-	4	32455870	32456918	+	153	0	98	169	
126952	127121	-	4	32455870	32456918	+	158	0	98	170	
126952	127121	-	4	32456664	32456806	+	158	0	98	170	
126952	127121	+	4	32456714	32456891	+	158	0	98	170	
125097	125299	-	4	32456714	32456891	+	191	0	99	203	
125097	125299	-	4	32456916	32457054	+	191	0	99	203	
125097	125299	+	4	32456916	32457054	+	191	0	99	203	
125097	125299	-	4	32456916	32457054	+	175	0	97	203	
156968	157203	-	4	32457062	32458486	+	232	6.90E-122	100	236	
161240	161534	+	4	32457062	32458411	+	295	4.50E-165	100	295	
121532	121822	-	4	32457062	32457558	+	117	1.00E-61	85	297	
125721	126030	-	4	32486318	32486750	+	209	5.00E-107	92	313	
126189	126563	-	4	32486318	32486750	+	189	1.10E-97	88	377	
160364	161880	-	4	32486762	32489051	+	1473	0	99	1517	
125299	126943	-	4	32486762	32488455	+	1633	0	100	1645	
125299	126943	+	4	32972163	32972378	+	1633	0	100	1645	
125299	126943	-	4	33308965	33309123	+	1629	0	100	1645	
125299	126943	-	4	33309121	33309345	+	1577	0	99	1645	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
28579	28707	+	5	690791	690925	+	101	0	95	129	
27905	28055	+	5	691054	691274	+	127	0	96	151	
6932	7094	+	5	691275	691419	+	147	7.80E-75	98	163	
6174	6360	+	5	884190	884308	+	120	2.00E-89	91	192	
27609	27844	+	5	884190	884308	+	208	0	97	236	
28153	28583	+	5	2409125	2409251	+	331	0	94	435	
26915	27611	+	5	3303501	3303634	+	643	0	98	703	
28718	29762	+	5	3537643	3537814	+	934	0	97	1046	
97562	97690	-	5	3845779	3845953	+	82	3.20E-37	91	130	
108041	108191	-	5	3845779	3845953	+	116	2.80E-55	94	152	
101459	101622	+	5	3845958	3846072	+	147	1.30E-73	98	163	
100701	100888	+	5	3845958	3846072	+	120	2.10E-89	91	192	
49219	49341	+	5	3862527	3862624	+	118	9.70E-57	99	122	
44911	45146	-	5	3862527	3862624	+	183	1.10E-93	94	235	
62020	62388	+	5	3862754	3862886	+	356	5.70E-198	99	368	
453006	453181	-	5	3862754	3862886	+	86	4.60E-96	87	178	
457975	458106	-	5	4629994	4630353	+	89	2.70E-67	92	133	
452882	452997	-	5	5004323	5004460	+	67	4.60E-96	90	115	
489122	489231	+	5	6384203	6384374	+	98	1.10E-58	97	110	
458255	458357	-	5	8827010	8827201	+	50	2.70E-67	87	102	
414344	414463	+	5	8827010	8827201	+	80	4.20E-118	92	120	
414344	414463	+	5	9249960	9250081	+	80	3.60E-95	92	120	
434601	434804	+	5	10727034	10727520	+	136	1.00E-67	92	204	
440182	440434	-	5	12504619	12504760	+	248	2.10E-131	100	252	
440182	440434	+	5	12712201	12712390	+	244	5.50E-128	99	252	
377168	377270	-	5	12778225	12778398	+	50	2.10E-66	87	102	
371795	371910	-	5	12779169	12779536	+	67	2.90E-96	90	115	
376888	377019	-	5	12779169	12780798	+	89	2.10E-66	92	133	
402836	402977	+	5	12785239	12785357	+	122	3.10E-64	96	142	
371919	372094	-	5	12785239	12785357	+	86	2.90E-96	87	178	
329900	330091	-	5	12801914	12803842	+	92	8.70E-76	87	196	
329900	330091	+	5	12803851	12804776	+	84	1.20E-66	86	196	
353514	353717	+	5	13552619	13552923	+	136	1.30E-63	92	204	
359095	359347	-	5	13552926	13553155	+	248	6.90E-133	100	252	
359095	359347	+	5	15612100	15612351	+	244	4.20E-131	99	252	
290625	292552	-	5	15612100	15612351	+	1846	0	99	1930	





Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
292957	294587	-	5	15658529	15658780	+	1578	0	99	1630	
289692	290617	-	5	15658529	15658780	+	906	0	99	926	
289208	289697	-	5	16540142	16540289	+	320	1.20E-187	91	496	
316249	316555	-	5	17749735	17749977	+	274	3.20E-145	97	306	
319857	320099	+	5	17750104	17750213	+	203	2.50E-103	96	243	
306786	306977	+	5	17750104	17750213	+	187	1.70E-95	99	191	
295354	295499	-	5	17791990	17792295	+	121	3.80E-57	96	145	
288144	288278	-	5	18495277	18495480	+	103	1.70E-46	94	135	
283423	283542	+	5	19001793	19001944	+	80	7.50E-91	92	120	
283423	283542	+	5	19217213	19217403	+	80	3.30E-87	92	120	
246083	246260	+	5	19217777	19217941	+	90	2.60E-73	88	178	
264465	264630	-	5	19501357	19501546	+	157	1.80E-104	99	165	
265045	265178	-	5	20783405	20784105	+	90	1.30E-37	91	138	
266037	266210	-	5	20783405	20784105	+	141	7.30E-69	95	173	
212024	221846	-	5	20784110	20784345	+	121	1.70E-65	95	149	
212571	223150	+	5	20784110	20784345	+	293	1.30E-157	95	361	
229657	257185	+	5	20784616	20784765	+	194	1.20E-99	97	222	
166021	166130	+	5	20784616	20784765	+	98	8.00E-59	97	110	
188317	188452	-	5	20784874	20785303	+	89	3.10E-35	91	137	
187812	187984	-	5	20784874	20785303	+	164	5.80E-79	99	172	
176932	177137	+	5	20785310	20785436	+	113	6.80E-53	89	209	
189307	189538	-	5	20785310	20785436	+	164	3.20E-200	93	232	
189511	189813	-	5	20785446	20786488	+	217	3.20E-200	93	305	
170772	171104	+	5	20785446	20786488	+	328	1.90E-175	100	332	
126257	126383	-	5	23804044	23804375	+	83	1.60E-45	91	127	
123106	123234	+	5	23959439	23959669	+	101	0	95	129	
122432	122582	+	5	23959439	23959673	+	127	0	96	151	
139437	139672	-	5	25022954	25023156	+	216	1.80E-111	98	236	
122136	122371	+	5	25022954	25023156	+	208	0	97	236	
122680	123110	+	5	25675573	25675735	+	331	0	94	435	
121442	122138	+	5	25675573	25675735	+	643	0	98	703	
123245	124289	+	5	29213895	29214023	+	934	0	97	1046	
32431	32531	+	6	1094075	1094422	+	68	3.00E-108	91	104	
32145	32250	+	6	1094075	1094422	+	70	3.00E-108	92	106	
27490	27611	+	6	1094435	1095606	+	110	0	98	122	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
29404	29544	-	6	1094435	1094990	+	125	1.40E-56	97	141	
30519	30660	-	6	1094991	1095606	+	118	0	96	142	
35155	35304	+	6	1106818	1106938	+	110	1.10E-86	93	150	
27905	28055	-	6	1106818	1106938	+	139	0	98	151	
32257	32405	+	6	4068518	4069121	+	107	3.00E-108	93	151	
12013	12183	-	6	4069506	4069660	+	163	1.50E-79	99	171	
32873	33074	+	6	4070139	4070289	+	198	2.50E-99	100	202	
1297	1529	+	6	4070356	4070500	+	225	2.60E-121	99	233	
27609	27844	-	6	4070573	4070699	+	216	0	98	236	
31362	31609	+	6	4070952	4071203	+	133	9.20E-65	88	249	
25585	25838	-	6	4071228	4071372	+	185	0	93	261	
25585	25838	-	6	4674801	4674915	+	173	1.60E-281	92	261	
26581	26912	-	6	5512242	5512396	+	312	2.30E-170	98	332	
25982	26324	+	6	5858067	5858261	+	289	0	96	349	
25834	26240	-	6	5893195	5893365	+	347	1.60E-281	96	411	
28159	28583	-	6	5893195	5893365	+	337	0	95	429	
25834	26324	-	6	7433476	7433736	+	443	0	97	495	
26328	27495	+	6	8414179	8414285	+	1062	0	98	1174	
26328	27611	-	6	9347182	9347305	+	1184	0	98	1292	
28727	30249	-	6	9347182	9347305	+	1419	0	98	1527	
100154	100257	+	6	9347305	9347460	+	99	1.80E-42	99	103	
107940	108056	-	6	9347305	9347460	+	88	7.90E-38	94	116	
106540	106711	-	6	9347460	9347635	+	163	1.40E-78	99	171	
95824	96057	+	6	9347718	9347847	+	225	1.10E-118	99	233	
120112	120366	-	6	9348026	9348134	+	185	0	93	261	
120112	120366	-	6	9348026	9348134	+	173	1.60E-281	92	261	
121108	121411	-	6	9348245	9348454	+	287	3.00E-158	99	303	
120509	120852	+	6	9348245	9348454	+	289	0	96	349	
120361	120768	-	6	9348245	9348454	+	347	1.60E-281	96	411	
120361	120852	-	6	9348683	9348815	+	443	0	97	495	
120855	121411	-	6	9349099	9349300	+	532	0	99	556	
120855	121411	+	6	9349099	9349300	+	524	0	99	556	
47183	47287	+	6	9349371	9349482	+	104	0	100	104	
75005	75112	-	6	9349371	9349482	+	87	4.20E-36	95	107	
62524	63236	-	6	9349872	9349976	+	692	0	99	712	
44620	47168	+	6	9350085	9350220	+	2327	0	98	2554	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
41292	44668	+	6	9350085	9350220	+	3196	0	99	3384	
47295	51269	+	6	9350597	9350705	+	3709	0	98	3977	
449818	450104	-	6	9350597	9350705	+	282	5.20E-184	100	286	
472321	472557	-	6	9350895	9351070	+	212	1.80E-117	97	236	
464207	464399	-	6	11159600	11159933	+	188	2.10E-94	99	192	
482717	482889	-	6	11159600	11159933	+	137	3.10E-65	95	173	
455761	455898	-	6	11293040	11293282	+	121	1.00E-55	97	137	
463944	464056	+	6	11346732	11346880	+	112	7.10E-90	100	112	
431705	431814	-	6	11779700	11779821	+	109	8.00E-260	100	109	
433257	433366	-	6	11779700	11779821	+	109	3.00E-152	100	109	
441957	442081	-	6	11779884	11780065	+	124	8.00E-260	100	124	
440892	441015	-	6	11779884	11780065	+	77	1.30E-98	90	125	
416274	416402	+	6	12201203	12201505	+	128	2.60E-59	100	128	
442305	442427	-	6	12504799	12508175	+	77	0	90	129	
431500	431636	-	6	12504799	12508175	+	136	1.00E-64	100	136	
428254	428390	+	6	12508180	12510721	+	132	6.30E-183	99	136	
441273	441417	-	6	12508180	12510187	+	120	8.90E-55	96	144	
425629	425785	+	6	12510737	12510840	+	144	6.30E-183	98	156	
411966	412134	+	6	12510846	12514816	+	140	1.20E-88	96	168	
440594	440774	-	6	12514816	12515527	+	131	1.30E-98	93	183	
410695	410905	-	6	12515628	12516892	+	210	8.00E-260	100	210	
431979	432198	-	6	12515965	12516108	+	207	5.00E-114	99	219	
413799	414133	-	6	12522736	12526127	+	232	4.60E-122	92	336	
441345	442306	-	6	12526359	12526883	+	801	0	96	961	
441260	442265	-	6	12526959	12528735	+	841	0	96	1005	
382857	382969	+	6	12528744	12529587	+	112	3.00E-92	100	112	
397977	398110	-	6	12529601	12529731	+	133	2.50E-158	100	133	
374674	374811	-	6	12529842	12530382	+	121	3.70E-54	97	137	
395692	395844	-	6	12530377	12531923	+	140	0	98	152	
383120	383312	-	6	12531929	12532267	+	188	3.40E-95	99	192	
368731	369017	-	6	12532276	12532392	+	282	9.40E-185	100	286	
395823	396401	-	6	12532397	12533033	+	534	0	98	578	
350618	350727	-	6	12533043	12534389	+	109	5.10E-127	100	109	
352170	352279	-	6	12534470	12535838	+	109	5.20E-153	100	109	
360870	360994	-	6	12535898	12536133	+	124	5.20E-153	100	124	
359805	359928	-	6	12535898	12536133	+	77	1.30E-98	90	125	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
361218	361340	-	6	12535898	12536133	+	77	0	90	129	
350413	350549	-	6	12743717	12744123	+	136	3.80E-65	100	136	
347167	347303	+	6	12743717	12744123	+	132	4.10E-184	99	136	
360186	360330	-	6	12744131	12744390	+	120	7.80E-83	96	144	
344542	344698	+	6	12744131	12744390	+	144	4.10E-184	98	156	
359507	359687	-	6	12745768	12745895	+	131	1.30E-98	93	183	
329900	330091	+	6	12745768	12745895	+	92	4.90E-68	87	196	
350892	351111	-	6	12745901	12746855	+	207	4.20E-106	99	219	
360258	361219	-	6	12745901	12746855	+	801	0	96	961	
360173	361178	-	6	12745937	12746936	+	841	0	96	1005	
299906	300510	+	6	12745937	12746936	+	341	0	89	605	
289443	289877	+	6	13473367	13473800	+	295	6.60E-159	92	435	
299967	300306	+	6	13712813	13713151	+	254	3.40E-266	94	342	
293891	294153	-	6	13713158	13713293	+	172	2.60E-88	91	264	
302344	302596	+	6	13732852	13733001	+	147	0	89	255	
291762	291946	+	6	13798623	13798789	+	168	8.70E-80	98	184	
307204	307384	-	6	13798623	13798789	+	164	1.80E-80	98	180	
295160	295324	-	6	13798623	13798789	+	164	1.10E-80	100	164	
312288	312450	-	6	14188371	14188603	+	155	1.90E-75	99	163	
300919	301075	+	6	14188371	14188603	+	96	0	90	156	
317411	317566	-	6	14188729	14188947	+	143	5.00E-70	98	155	
301603	301753	+	6	14188729	14188947	+	57	0	84	153	
301695	301845	-	6	14544679	14544815	+	126	3.90E-59	96	150	
302616	302764	+	6	14544679	14544815	+	65	0	86	149	
301804	301949	+	6	14547762	14547933	+	97	0	92	145	
300322	300458	+	6	14547762	14547933	+	74	3.40E-266	88	138	
303434	303564	+	6	16054456	16054583	+	126	2.60E-58	99	130	
285353	285481	+	6	16055174	16055459	+	128	1.90E-59	100	128	
302017	302144	+	6	16055174	16055459	+	67	0	88	127	
288673	288792	+	6	16055457	16055597	+	107	1.30E-102	97	119	
302534	302643	+	6	16055550	16055943	+	109	1.30E-102	100	109	
293512	293617	-	6	16055952	16056057	+	101	3.30E-45	99	105	
244887	245002	-	6	16740593	16740784	+	91	8.90E-40	95	115	
248247	248545	-	6	16740593	16740784	+	208	5.40E-107	92	308	
267541	267680	+	6	16821074	16821237	+	107	5.10E-52	94	139	
268296	268485	+	6	17148886	17148988	+	90	4.00E-51	86	198	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
270011	270187	+	6	17149033	17149212	+	176	2.20E-106	100	176	
271336	271512	-	6	17970077	17970177	+	156	2.70E-143	97	176	
279780	279990	-	6	22859089	22859200	-	210	9.10E-172	100	210	
281051	281219	+	6	23206405	23206540	+	140	2.40E-90	96	168	
282884	283218	-	6	23206405	23206540	+	232	4.60E-122	92	336	
202615	203515	+	6	23520379	23520568	+	593	0	98	637	
203260	205514	+	6	23525288	23525865	+	1283	0	99	1347	
204680	208378	+	6	23525866	23526017	+	1285	0	98	1369	
206274	210433	+	6	23533598	23533747	+	212	0	97	236	
220648	239155	-	6	23533598	23533747	+	210	7.00E-140	100	210	
221919	241655	+	6	23541990	23542131	+	140	3.60E-88	96	168	
225220	248321	+	6	23541990	23542131	+	98	8.10E-50	85	238	
225475	248691	+	6	23542410	23543935	+	28	8.10E-50	82	100	
232467	262689	-	6	23542410	23543935	+	102	5.20E-47	99	106	
233859	265516	-	6	23544106	23544529	+	145	3.70E-86	99	149	
237383	272543	+	6	23544106	23544535	+	128	6.10E-60	100	128	
237931	273691	-	6	23544644	23544794	+	93	1.90E-40	87	189	
190067	190168	+	6	23544644	23544794	+	85	7.50E-36	96	101	
201885	201993	+	6	23545065	23545300	+	88	1.10E-267	95	108	
200845	200959	-	6	23545065	23545300	+	66	4.10E-40	89	114	
201885	202003	+	6	23545305	23546592	+	94	0	95	118	
199192	199323	+	6	23545305	23546036	+	119	0	98	131	
201402	201538	+	6	23546037	23546592	+	105	1.10E-267	94	141	
182567	182710	+	6	23546605	23547098	+	92	0	91	144	
168246	168488	-	6	23546605	23547098	+	97	3.90E-49	85	249	
201537	201877	+	6	23547106	23547365	+	286	0	96	342	
201490	201877	+	6	23547106	23547365	+	319	1.10E-267	95	395	
196006	196532	+	6	23669884	23669988	+	494	0	98	526	
199434	199975	+	6	23669884	23669988	+	501	0	98	541	
198340	199184	+	6	23669982	23670132	+	784	0	98	844	
191362	192627	+	6	23669982	23670132	+	1182	0	98	1266	
199997	201538	+	6	23670151	23670254	+	1407	0	98	1547	
196555	198332	+	6	23670151	23670254	+	1713	0	99	1777	
192621	196014	+	6	24509903	24510233	+	3233	0	99	3393	
126958	127058	+	6	24509932	24510233	+	68	2.10E-109	91	104	
126672	126777	+	6	25747398	25747525	+	70	2.10E-109	92	106	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
122017	122138	+	6	25747398	25747525	+	110	0	98	122	
123931	124071	-	6	25964004	25964147	+	125	2.00E-59	97	141	
125046	125187	-	6	25964004	25964147	+	118	0	96	142	
129682	129831	+	6	25967673	25967854	+	110	3.10E-85	93	150	
122432	122582	-	6	26050547	26050685	+	139	0	98	151	
126784	126932	+	6	26051444	26051556	+	107	2.10E-109	93	151	
159616	159787	-	6	27759749	27759934	+	137	1.60E-66	95	173	
127400	127601	+	6	28216361	28216523	+	198	1.10E-102	100	202	
122136	122371	-	6	28216824	28216942	+	216	0	98	236	
149220	149455	-	6	28216944	28217052	+	212	1.10E-117	97	236	
125889	126136	+	6	28217053	28217158	+	133	1.40E-63	88	249	
122680	123110	-	6	28217316	28217456	+	343	0	95	435	
121411	122022	+	6	28217316	28217456	+	538	0	97	618	
121411	122138	-	6	28286975	28287219	+	652	0	97	736	
123254	124776	-	6	28286975	28287219	+	1419	0	98	1527	
139153	141160	+	6	30216931	30217159	+	1928	0	99	2008	
135819	139200	+	6	30217174	30217273	+	3242	0	99	3382	
37207	37355	-	7	1640139	1640409	+	137	2.60E-65	98	149	
32425	32594	+	7	1901765	1901927	+	158	0	98	170	
30570	30772	+	7	2110665	2110767	+	191	0	99	203	
16166	16388	+	7	4475047	4475153	+	204	3.40E-105	98	224	
30772	32416	+	7	5043941	5044081	+	1633	0	100	1645	
98994	99107	+	7	5423818	5423949	+	113	6.90E-52	100	113	
113744	113858	-	7	5817380	5817548	+	84	4.80E-35	93	116	
95163	95352	-	7	6784394	6784640	+	113	2.60E-49	90	189	
110693	110916	+	7	7970350	7970615	+	204	5.80E-107	98	224	
61186	61302	+	7	8369184	8369518	+	116	6.50E-52	100	116	
69644	69776	-	7	8369184	8369518	+	120	7.30E-55	98	132	
78923	79064	+	7	8369184	8369518	+	133	3.10E-63	99	141	
49530	49711	+	7	9784990	9785138	+	86	2.00E-35	87	182	
75658	75841	-	7	11520954	11521080	+	169	5.30E-86	98	185	
56735	57006	-	7	12439725	12439997	+	255	6.10E-135	99	271	
447669	447866	+	7	12760406	12760521	+	177	2.80E-88	97	197	
444392	444504	+	7	13500978	13501226	+	104	1.40E-47	98	112	
414344	414463	+	7	13500978	13501226	+	80	3.20E-118	92	120	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
406768	406890	+	7	14231405	14231523	+	122	5.20E-56	100	122	
413759	413943	-	7	14231405	14231523	+	136	1.10E-64	93	188	
414813	415062	+	7	14240880	14241082	+	202	1.10E-105	95	250	
409442	409777	-	7	14240880	14241082	+	303	3.40E-163	98	335	
366582	366779	+	7	14241090	14242734	+	177	2.00E-88	97	197	
359631	359733	+	7	14241090	14242734	+	98	1.90E-42	99	102	
363305	363417	+	7	14242743	14242912	+	104	1.40E-47	98	112	
330836	331028	-	7	14242743	14242912	+	176	1.00E-87	98	192	
329900	330091	-	7	14574536	14574651	+	92	1.50E-56	87	196	
288688	288990	+	7	15130519	15130710	+	246	1.90E-243	95	302	
296535	296803	-	7	16447676	16447824	+	166	1.50E-82	90	274	
300199	300470	+	7	16447676	16447824	+	179	4.60E-92	92	271	
283892	284141	+	7	16447825	16448087	+	202	3.00E-104	95	250	
293057	293282	+	7	17536741	17536971	+	217	1.50E-116	99	225	
321473	321676	-	7	17637771	17637955	+	85	6.20E-50	85	209	
321473	321677	-	7	19608208	19608395	+	111	1.50E-62	88	207	
293009	293172	-	7	20759746	20759867	+	139	2.70E-66	96	163	
288950	289083	+	7	20759868	20760064	+	129	1.90E-243	99	133	
283423	283542	+	7	20759868	20760064	+	80	1.60E-87	92	120	
252704	252935	-	7	21839513	21839737	+	207	3.20E-103	97	231	
271274	271402	-	7	22133904	22134091	+	104	3.30E-49	95	128	
273410	273654	+	7	22133904	22134091	+	140	1.20E-98	89	248	
278527	278862	-	7	22173202	22173313	+	303	5.20E-162	98	335	
282844	283028	-	7	22173202	22173313	+	136	6.50E-66	93	188	
205617	209092	-	7	22173414	22173624	+	171	1.90E-83	95	211	
211021	219999	-	7	22995858	22996153	+	230	7.80E-126	93	314	
219395	236774	-	7	22996139	22996271	+	299	1.00E-162	97	335	
225185	248168	-	7	23275678	23275901	+	149	7.90E-72	100	149	
227987	253792	-	7	23275678	23275901	+	153	2.10E-118	98	169	
173271	173373	-	7	23859032	23859144	+	99	9.60E-45	99	103	
192803	193066	-	7	25283901	25284214	+	251	5.50E-134	99	263	
125730	125838	-	7	26362902	26363106	+	85	4.70E-37	95	109	
131734	131882	-	7	26372154	26372359	+	137	1.00E-64	98	149	
126952	127121	+	7	27974759	27974948	+	158	0	98	170	
125097	125299	+	7	28804632	28804810	+	191	0	99	203	
125299	126943	+	7	28938574	28938675	+	1633	0	100	1645	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
13904	14011	-	8	6782	7246	+	81	9.20E-61	94	109	
13904	14031	-	8	7267	7415	+	88	1.10E-70	92	128	
31203	31348	+	8	9822	9943	+	90	1.20E-96	90	146	
35155	35304	+	8	467375	467617	+	118	0	95	150	
16052	16221	+	8	593433	593540	+	162	2.60E-81	99	170	
32425	32594	-	8	593433	593540	+	158	0	98	170	
32425	32594	+	8	620340	620466	+	158	0	98	170	
31321	31520	-	8	620340	620466	+	128	1.60E-63	91	200	
30570	30772	+	8	1946096	1946456	+	191	0	99	203	
12445	12665	+	8	1946469	1946681	+	119	1.20E-96	88	223	
26761	27016	-	8	5797578	5797768	+	194	2.10E-260	94	258	
26360	26667	-	8	5797578	5797768	+	245	2.10E-260	95	309	
30772	32416	+	8	5811858	5812135	+	1629	0	100	1645	
30772	32416	-	8	5812135	5812279	+	1625	0	100	1645	
108431	108539	-	8	5838689	5839136	+	81	9.40E-61	94	109	
121288	121408	-	8	7742743	7742906	+	100	4.60E-205	96	120	
108431	108559	-	8	8768893	8769060	+	88	7.20E-70	92	128	
91166	91330	+	8	9239530	9239676	+	152	9.10E-74	98	164	
110579	110749	+	8	9239530	9239676	+	162	9.10E-84	99	170	
91793	92009	-	8	9239996	9240152	+	164	2.50E-233	94	216	
106972	107193	+	8	9239996	9240152	+	119	6.10E-57	88	223	
120887	121195	-	8	9240311	9240418	+	245	4.60E-205	95	309	
92008	92362	-	8	9240311	9240418	+	269	2.50E-233	94	361	
73458	73629	-	8	9244818	9244936	+	119	3.10E-58	92	171	
59941	60303	-	8	9244818	9244936	+	330	1.60E-179	98	362	
463749	463906	-	8	9254294	9254496	+	53	7.20E-88	83	161	
464209	464356	-	8	9254294	9254496	+	50	7.20E-88	83	154	
450940	451058	+	8	9254504	9256148	+	110	1.50E-47	98	118	
463485	463594	-	8	9254504	9256148	+	48	7.20E-88	86	112	
414344	414463	+	8	9256157	9256326	+	80	9.30E-118	92	120	
405096	405218	-	8	9256157	9256326	+	114	3.60E-55	98	122	
413931	414096	+	8	9259482	9259671	+	149	1.20E-73	98	165	
444149	444332	-	8	9264393	9265100	+	80	2.40E-61	85	192	
407569	407769	-	8	9272687	9272836	+	200	1.20E-102	100	200	
411434	411717	+	8	9272687	9272836	+	267	1.90E-141	99	283	





Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
382398	382507	-	8	9632198	9632494	+	48	2.80E-88	86	112	
369853	369971	+	8	11408568	11408943	+	110	6.40E-49	98	118	
383122	383269	-	8	11514218	11514387	+	50	2.80E-88	83	154	
382662	382819	-	8	11514218	11514387	+	53	2.80E-88	83	161	
396341	396619	+	8	12037958	12038158	+	278	3.10E-147	100	278	
395284	395602	+	8	12792635	12793080	+	281	5.10E-147	97	321	
395692	396401	-	8	12793080	12793362	+	665	0	98	709	
353515	353651	+	8	12793080	12793362	+	100	9.50E-44	93	136	
327014	327194	+	8	12793080	12793362	+	132	9.80E-63	93	180	
363062	363245	-	8	13231108	13231469	+	80	2.40E-61	85	192	
329900	330091	+	8	14983304	14983520	+	92	1.10E-74	87	196	
337923	338139	+	8	15136742	15136929	+	141	6.70E-164	91	217	
338119	338361	+	8	16395635	16395892	+	179	6.70E-164	93	243	
289599	290158	+	8	16395635	16395769	+	551	3.30E-308	100	559	
290828	291269	+	8	16395773	16395892	+	352	4.60E-190	95	448	
293212	293512	-	8	16395989	16396295	+	200	2.60E-104	92	300	
298326	298614	+	8	16395989	16396295	+	240	3.70E-126	96	288	
289811	290025	+	8	17047231	17047377	+	187	8.40E-95	96	219	
291795	291996	+	8	17056175	17056395	+	197	4.30E-105	100	201	
286936	287100	+	8	17056175	17056395	+	126	6.60E-60	94	166	
308853	308998	-	8	17080783	17080923	+	141	6.50E-69	99	145	
283423	283542	+	8	17080783	17080923	+	80	3.10E-88	92	120	
245691	245978	+	8	17346755	17347040	+	251	8.90E-135	97	287	
263369	263611	-	8	17477317	17477446	+	181	6.60E-88	93	245	
270139	270283	-	8	17552702	17552917	+	84	5.50E-59	89	148	
271014	271396	-	8	17552919	17553160	+	240	1.90E-141	91	384	
280519	280802	+	8	18948868	18949067	+	267	2.50E-140	99	283	
283016	283181	+	8	18949069	18949233	+	149	1.80E-75	98	165	
221387	240706	+	8	18949069	18949233	+	267	4.90E-142	99	283	
224277	246667	+	8	19063841	19064128	+	425	0.00E+00	98	465	
224759	247315	+	8	19935470	19935669	+	141	0.00E+00	99	149	
239863	277821	-	8	19935470	19935669	+	434	4.80E-244	99	446	
241050	279937	+	8	20225884	20226001	+	115	9.20E-56	90	191	
199757	199859	+	8	20225884	20226001	+	52	1.70E-27	88	104	
185600	185759	-	8	22193033	22193202	+	131	7.30E-63	96	159	
122378	122499	+	8	22193033	22193202	+	42	3.50E-45	83	130	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
122239	122371	-	8	22193211	22194855	+	101	4.60E-44	94	133	
121411	121543	-	8	22193211	22194855	+	95	3.60E-40	93	135	
125730	125875	+	8	23509473	23510031	+	90	5.00E-37	90	146	
129682	129831	+	8	24166365	24166500	+	118	0	95	150	
126952	127121	+	8	24607222	24607323	+	158	0	98	170	
126952	127121	-	8	25214641	25214959	+	158	0	98	170	
125848	126047	-	8	25280180	25280336	+	128	1.50E-60	91	200	
125097	125299	+	8	25292005	25292136	+	191	0	99	203	
125299	126943	+	8	25292131	25292295	+	1629	0	100	1645	
125299	126943	-	8	25292803	25292982	+	1625	0	100	1645	
40369	40469	-	9	548620	548801	+	93	1.00E-88	98	101	
27943	28055	-	9	1274630	1274975	+	105	1.40E-88	98	113	
32426	32594	+	9	1274630	1275077	+	153	0	98	169	
32425	32594	+	9	1274977	1275077	+	158	0	98	170	
16464	16638	-	9	1362226	1362334	+	135	1.20E-64	94	175	
9468	9645	+	9	1476452	1476661	+	174	7.30E-86	99	178	
30570	30772	+	9	1476661	1476978	+	191	0	99	203	
31377	32416	+	9	1476977	1478907	+	966	0	98	1042	
30772	32416	+	9	2208018	2208148	+	1633	0	100	1645	
90776	90893	-	9	2208018	2208148	+	113	9.00E-58	99	117	
110991	111166	-	9	4365823	4366030	+	135	3.00E-65	94	175	
103995	104173	+	9	4620402	4620550	+	174	7.40E-86	99	178	
70663	70796	-	9	4620570	4621813	+	133	6.00E-90	100	133	
75518	75728	-	9	4621318	4621813	+	210	0	100	210	
46758	47051	-	9	4621318	4621813	+	253	5.40E-138	97	293	
56595	56890	+	9	4621821	4623347	+	295	3.40E-158	100	295	
40471	40817	-	9	4621821	4623347	+	334	4.60E-184	99	346	
70687	71563	+	9	4621821	4623347	+	660	0	94	880	
54692	56623	-	9	4621976	4622153	+	1895	0	100	1931	
485621	485810	+	9	4621976	4622153	+	149	1.90E-73	95	189	
474581	474740	+	9	4622061	4622203	+	147	5.00E-140	98	159	
487793	487948	-	9	4623361	4626493	+	103	2.00E-124	91	159	
484184	484333	+	9	4623361	4625403	+	137	5.00E-140	98	149	
460774	460905	+	9	4623361	4625403	+	123	7.50E-57	98	131	
472882	472995	-	9	4637890	4641293	+	90	1.10E-78	95	114	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
460796	460905	-	9	4640305	4640421	+	93	8.50E-39	96	109	
473014	473120	-	9	4641294	4643476	+	86	1.10E-78	95	106	
427400	427561	-	9	4643474	4643799	+	157	4.60E-77	99	161	
406321	406526	+	9	4643747	4645122	+	109	2.90E-77	88	213	
427511	427970	+	9	4644913	4645051	+	439	4.70E-247	99	459	
412862	413358	-	9	4645131	4645847	+	488	0	100	496	
421500	422461	+	9	4645887	4646283	+	937	0	99	961	
429743	430763	+	9	4649459	4650836	+	992	0	99	1020	
430775	431807	+	9	4651014	4652038	+	1000	0	99	1032	
436480	437538	+	9	4651078	4652038	+	1042	0	100	1058	
428484	429743	+	9	4652047	4654152	+	1226	0	99	1262	
431820	433248	+	9	4652047	4654152	+	1412	0	100	1428	
411337	412864	-	9	4654162	4658081	+	1499	0	100	1527	
422461	424567	+	9	4654162	4658081	+	2054	0	99	2106	
408190	411324	-	9	4670141	4671399	+	3070	0	99	3134	
433257	436471	+	9	4670141	4671399	+	3143	0	99	3215	
404701	408106	-	9	4671409	4672428	+	3281	0	99	3405	
424575	428490	+	9	4671409	4672428	+	3853	0	100	3921	
379687	379818	+	9	4671416	4671570	+	123	5.30E-57	98	131	
394088	394349	-	9	4671416	4671570	+	205	2.20E-109	95	261	
391365	391673	-	9	4672408	4673438	+	284	1.10E-153	98	308	
402189	402515	-	9	4672408	4673438	+	322	0	100	326	
402518	404701	-	9	4673439	4674866	+	2155	0	100	2183	
328365	328466	+	9	4673439	4674866	+	101	2.60E-42	100	101	
346313	346474	-	9	4674876	4678090	+	157	1.20E-75	99	161	
329908	330091	+	9	4674876	4678090	+	80	4.30E-69	86	188	
338399	338796	+	9	4675491	4675609	+	385	0	99	397	
346424	346883	+	9	4678102	4679158	+	439	9.40E-245	99	459	
337644	338361	+	9	4678102	4679158	+	709	0	100	717	
348656	349676	+	9	4679177	4679345	+	992	0	99	1020	
340349	341374	+	9	5060088	5060222	+	1001	0	99	1025	
349688	350720	+	9	5960801	5960959	+	1000	0	99	1032	
355393	356451	+	9	6793370	6793517	+	1042	0	100	1058	
347397	348656	+	9	6793524	6793677	+	1226	0	99	1262	
336260	337636	+	9	7120468	7120992	+	1341	0	99	1377	
338793	340172	+	9	7124709	7125233	+	1355	0	100	1379	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
350733	352161	+	9	7125244	7125408	+	1412	0	100	1428	
341374	343480	+	9	7337715	7338018	+	2054	0	99	2106	
352170	355384	+	9	9031740	9031880	+	3143	0	99	3215	
343488	347403	+	9	9086696	9086813	+	3853	0	100	3921	
310298	310792	-	9	10957908	10958033	+	366	3.10E-258	94	494	
286235	286633	+	9	10958039	10958527	+	386	3.80E-214	99	398	
293891	294192	-	9	11531119	11531401	+	220	1.10E-112	93	304	
293899	294192	-	9	11892412	11893450	+	229	4.10E-119	95	293	
293899	294192	-	9	11892412	11893450	+	229	9.30E-121	95	293	
293899	294192	-	9	11893460	11893628	+	229	1.00E-121	95	293	
293910	294192	+	9	11893460	11893628	+	196	1.00E-100	92	284	
308836	309112	+	9	11896773	11896954	+	238	4.70E-129	96	278	
297335	297554	+	9	12296659	12296951	+	175	1.60E-91	95	219	
296101	296283	+	9	12582269	12582439	+	126	8.20E-99	92	182	
293891	294044	-	9	12582269	12582439	+	110	6.10E-101	93	154	
294044	294192	-	9	12582446	12582634	+	108	6.10E-101	93	148	
294583	294722	+	9	12582446	12582634	+	139	8.90E-68	100	139	
293974	294109	-	9	12651406	12651698	+	103	1.20E-98	94	135	
310788	310914	-	9	12676701	12676801	+	118	3.10E-258	98	126	
249743	249902	+	9	12894921	12895213	+	132	1.40E-63	96	160	
253546	253901	-	9	13861231	13861585	+	281	3.50E-148	95	357	
257162	257295	-	9	14452285	14452487	+	129	1.40E-60	99	133	
266019	266219	+	9	14452285	14452487	+	180	2.70E-89	98	200	
269019	269162	-	9	14452495	14454139	+	135	0	99	143	
278366	280409	-	9	14452495	14454139	+	1995	0	99	2043	
280422	281949	-	9	14454148	14454317	+	1499	0	100	1527	
281947	282443	-	9	14454148	14454317	+	488	0	100	496	
219234	238160	-	9	16299526	16299684	+	1995	0	99	2043	
221290	241756	-	9	16299526	16299684	+	1499	0	100	1527	
222815	244523	-	9	16299688	16299792	+	1220	0	100	1244	
224078	245954	-	9	16299887	16299999	+	145	0	99	149	
234240	266294	-	9	16299887	16299999	+	141	0	96	165	
234404	266979	-	9	16299999	16300293	+	381	0	93	525	
234920	268015	-	9	16300464	16300569	+	338	0	91	530	
235534	268847	-	9	16300464	16300569	+	130	5.70E-60	100	130	
178787	178905	+	9	16300603	16300714	+	102	8.70E-46	97	118	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
184733	184852	-	9	16300603	16300714	+	95	3.90E-52	95	119	
178787	178928	+	9	16300784	16301242	+	97	6.90E-43	92	141	
164692	164847	-	9	16300784	16301242	+	103	4.80E-113	91	159	
183013	183182	+	9	16301243	16301375	+	161	6.20E-82	99	169	
162520	162709	+	9	16301375	16301523	+	149	2.60E-70	95	189	
173157	173475	-	9	16301375	16301523	+	314	1.40E-171	100	318	
122680	122784	-	9	16301525	16301831	+	93	6.00E-91	97	105	
149913	150018	-	9	16301831	16301991	+	86	2.00E-77	95	106	
122470	122582	-	9	16301831	16301991	+	105	6.00E-91	98	113	
149781	149893	-	9	16301992	16302121	+	90	2.00E-77	95	114	
161083	161231	+	9	16483667	16484546	+	137	1.90E-141	98	149	
151480	151638	+	9	18579797	18579929	-	147	1.90E-141	98	159	
126953	127121	+	9	18579930	18580128	-	153	0	98	169	
126952	127121	+	9	18580129	18580405	-	158	0	98	170	
125097	125299	+	9	19940997	19941257	+	191	0	99	203	
134896	135343	-	9	19941259	19941551	+	424	9.60E-235	99	448	
125904	126943	+	9	19941910	19942128	+	966	0	98	1042	
125299	126943	+	9	22402627	22403023	+	1633	0	100	1645	
26216	26324	+	10	2103516	2103632	+	85	7.70E-98	95	109	
30951	31063	+	10	2103516	2103632	+	109	2.00E-95	99	113	
8876	9002	-	10	2734914	2736175	+	116	4.00E-54	98	128	
30524	30660	+	10	2734914	2736175	+	113	0	96	137	
29376	29514	+	10	2736175	2738436	+	119	6.90E-55	96	139	
35155	35304	-	10	2736175	2738436	+	118	0	95	150	
27905	28055	+	10	2995209	2995365	+	131	0	97	151	
26330	26486	+	10	4268060	4268256	+	125	7.70E-98	95	157	
32425	32594	+	10	5321122	5321227	+	158	0	98	170	
32425	32594	-	10	5368691	5368792	+	158	0	98	170	
32425	32594	-	10	7656851	7656973	+	146	0	96	170	
30772	30960	-	10	7656851	7656973	+	189	5.70E-111	100	189	
30570	30772	+	10	7656972	7657079	+	191	0	99	203	
30570	30772	-	10	7656972	7657079	+	191	0	99	203	
30570	30772	-	10	7657164	7657397	+	183	0	98	203	
27609	27844	+	10	7657530	7657702	+	216	0	98	236	
25834	26077	+	10	7657530	7657702	+	214	3.10E-211	97	246	



Mitochondria								Stats		
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
25585	25838	+	10	7657702	7657818	+	185	3.10E-211	93	261
25585	25838	+	10	7657818	7657926	+	181	0	92	261
5237	5519	+	10	7658013	7658140	+	271	1.00E-148	99	283
28153	28583	+	10	7658013	7658140	+	343	0	95	435
25834	26324	+	10	7658136	7658248	+	443	0	97	495
30772	31768	-	10	7658136	7658248	+	965	0	99	997
31135	32414	-	10	7658420	7658574	+	1185	0	98	1281
26328	27611	+	10	7659165	7659264	+	1198	0	98	1290
28718	30249	+	10	7659165	7659264	+	1428	0	98	1536
30772	32416	+	10	7659165	7659264	+	1617	0	100	1645
30772	32416	-	10	7659860	7659968	+	1593	0	99	1645
114732	114832	+	10	7659860	7659968	+	100	4.10E-44	100	100
89870	89973	+	10	7660202	7660336	+	91	2.40E-37	97	103
120113	120217	+	10	7660202	7660336	+	104	5.30E-47	100	104
85361	85468	+	10	7673800	7673961	+	95	2.40E-61	97	107
120743	120852	+	10	7673960	7674197	+	85	3.90E-99	95	109
103403	103530	-	10	7674260	7674363	+	116	4.00E-54	98	128
120857	121014	+	10	7674260	7674363	+	125	3.90E-99	95	157
120361	120605	+	10	7674362	7674550	+	214	2.60E-213	97	246
120112	120366	+	10	7674362	7674550	+	185	2.60E-213	93	261
120112	120366	+	10	7674574	7674680	+	181	0	92	261
99764	100047	+	10	7674764	7674871	+	271	4.80E-144	99	283
120361	120852	+	10	7674982	7675094	+	443	0	97	495
120855	121411	+	10	7674982	7675094	+	528	0	99	556
71529	71635	+	10	7675263	7675370	+	74	2.50E-31	92	106
66972	67089	+	10	7675263	7675370	+	81	1.20E-62	92	117
42400	42535	-	10	7675506	7675669	+	123	4.90E-56	98	135
79710	79869	+	10	7675847	7675953	+	155	8.60E-126	99	159
65192	65355	-	10	7676128	7676236	+	156	4.50E-76	99	164
69832	70025	-	10	7676261	7676360	+	193	3.10E-102	100	193
62020	62388	+	10	7676387	7676496	+	364	2.00E-244	100	368
459974	462232	-	10	9675237	9675381	+	2094	0	98	2262
462319	463583	-	10	9675237	9675381	+	1136	0	97	1264
446376	446788	+	10	9675392	9675540	+	342	0	95	418
446982	447186	+	10	9675392	9675540	+	160	0	95	204
447307	447468	-	10	9675550	9675966	+	133	2.90E-65	96	161



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
463749	463906	+	10	9675550	9675966	+	57	3.20E-89	84	161	
463749	463906	-	10	9675974	9676117	+	53	1.00E-56	83	161	
463749	463906	-	10	9675974	9676117	+	53	1.90E-90	83	161	
464209	464356	-	10	9676173	9676376	+	50	1.90E-90	83	154	
464209	464356	+	10	9676173	9676376	+	52	3.20E-89	84	152	
446224	446367	+	10	9676366	9676526	+	109	0	93	149	
446071	446216	+	10	9676366	9676526	+	129	0	97	145	
446797	446941	+	10	10281200	10281356	+	132	0	98	144	
485470	485605	+	10	10281200	10281356	+	123	5.70E-56	98	135	
463485	463594	+	10	10281515	10281622	+	48	3.20E-89	86	112	
463485	463594	-	10	10281515	10281622	+	48	1.00E-56	86	112	
463485	463594	-	10	10295770	10295972	+	48	1.90E-90	86	112	
478139	478247	+	10	10295770	10295972	+	108	2.60E-96	100	108	
465791	465899	+	10	10295980	10297624	+	100	2.60E-96	98	108	
471447	471547	-	10	10295980	10297624	+	84	1.20E-68	96	100	
427101	427205	+	10	10297633	10297802	+	100	1.60E-115	99	104	
437622	437731	+	10	10297633	10297802	+	105	2.00E-118	99	109	
438104	438218	+	10	10315749	10316053	+	110	2.40E-121	99	114	
414344	414463	+	10	10316361	10316519	+	80	0	92	120	
423415	423538	-	10	10316881	10317248	+	115	4.10E-53	98	123	
440892	441018	+	10	10316881	10317571	+	106	0	96	126	
440892	441018	+	10	10317568	10318476	+	106	0	96	126	
442305	442427	+	10	10318486	10318756	+	81	0	91	129	
442305	442427	+	10	10318818	10320870	+	81	0	91	129	
440107	440237	+	10	10320879	10322546	+	94	0	93	130	
440107	440237	+	10	10322531	10323430	+	94	0	93	130	
414344	414482	-	10	10323435	10323595	+	83	8.80E-191	90	139	
436304	436471	-	10	10323540	10323705	+	92	8.80E-191	89	168	
443246	443419	-	10	10323540	10323705	+	161	7.10E-79	98	173	
438838	439040	+	10	10326520	10326693	+	142	0	93	202	
407127	407330	+	10	10327823	10327932	+	187	0	98	203	
407127	407330	+	10	10329920	10330019	+	183	0	98	203	
438838	439043	+	10	10330018	10330216	+	145	0	93	205	
438442	438644	+	10	10330231	10330429	+	109	0	88	209	
438442	438644	+	10	10332869	10333657	+	109	0	88	209	
440518	440774	+	10	10333660	10333859	+	206	0	95	258	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
440518	440774	+	10	10341867	10342071	+	206	0	95	258	
439318	439682	+	10	10341867	10342071	+	224	0	90	368	
439318	439863	+	10	10342224	10342424	+	293	0	88	549	
406345	407134	+	10	10342224	10342424	+	696	0	97	790	
406344	407134	+	10	10342769	10343129	+	697	0	97	791	
441345	442306	+	10	10342769	10343129	+	841	0	97	961	
441345	442306	+	10	10344884	10345013	+	833	0	97	961	
441028	442265	+	10	10344884	10345013	+	1058	0	96	1238	
441028	442265	+	10	10345224	10345480	+	1050	0	96	1238	
384704	384812	+	10	10345224	10345480	+	100	1.20E-44	98	108	
382398	382507	-	10	10345543	10345668	+	48	1.30E-56	86	112	
382398	382507	-	10	10345543	10345668	+	48	4.40E-92	86	112	
382398	382507	+	10	10345669	10346900	+	48	9.80E-91	86	112	
386453	386587	+	10	10345669	10346900	+	134	2.10E-62	100	134	
365710	365854	+	10	10345981	10346936	+	132	0	98	144	
364984	365129	+	10	10345981	10346936	+	129	0	97	145	
365137	365280	+	10	10346942	10347069	+	109	0	93	149	
383122	383269	+	10	10346942	10347069	+	52	9.80E-91	84	152	
383122	383269	-	10	10348437	10348696	+	50	4.40E-92	83	154	
366220	366381	-	10	10348437	10348696	+	133	1.90E-62	96	161	
382662	382819	+	10	10348704	10349197	+	57	9.80E-91	84	161	
382662	382819	-	10	10348704	10349197	+	53	1.30E-56	83	161	
382662	382819	-	10	10349210	10350497	+	53	4.40E-92	83	161	
365895	366099	+	10	10349210	10349765	+	160	0	95	204	
395695	395957	-	10	10349766	10350497	+	154	4.20E-76	89	266	
390611	390901	+	10	10350502	10350737	+	209	5.60E-106	93	293	
390599	390901	+	10	10350502	10350737	+	241	0	95	305	
365289	365701	+	10	10351008	10351158	+	342	0	95	418	
395692	396401	+	10	10351008	10351158	+	673	0	99	709	
381232	382496	-	10	10351266	10351695	+	1136	0	97	1264	
378887	381145	-	10	10351266	10351695	+	2094	0	98	2262	
346014	346118	+	10	10351857	10353392	+	100	3.40E-167	99	104	
356535	356644	+	10	10351857	10353392	+	105	1.60E-85	99	109	
357017	357131	+	10	10353647	10353812	+	110	1.80E-88	99	114	
342328	342451	-	10	10353676	10353812	+	115	6.00E-52	98	123	
359805	359931	+	10	10362072	10362221	+	106	0	96	126	





Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
359805	359931	+	10	10362072	10362221	+	106	0	96	126	
361218	361340	+	10	10369802	10370510	+	81	0	91	129	
361218	361340	+	10	10375226	10375415	+	81	0	91	129	
359020	359150	+	10	10378575	10378744	+	94	0	93	130	
359020	359150	+	10	10378575	10378744	+	94	0	93	130	
338793	338955	+	10	10378753	10380397	+	158	3.40E-167	99	162	
355217	355384	-	10	10378753	10380397	+	92	4.00E-144	89	168	
362159	362332	-	10	10380405	10380607	+	161	2.30E-81	98	173	
329900	330091	-	10	10380405	10380607	+	92	4.00E-144	87	196	
339159	339357	-	10	10389945	10390082	+	150	2.10E-75	94	198	
357751	357953	+	10	10389945	10390082	+	142	0	93	202	
357751	357956	+	10	10394754	10394861	+	145	0	93	205	
357355	357557	+	10	10394754	10394861	+	109	0	88	209	
357355	357557	+	10	10395020	10395176	+	109	0	88	209	
359431	359687	+	10	10395020	10395176	+	206	0	95	258	
359431	359687	+	10	10395496	10395642	+	206	0	95	258	
358231	358595	+	10	10395496	10395642	+	224	0	90	368	
325463	325848	-	10	11280146	11280253	+	329	2.80E-183	96	385	
358231	358776	+	10	11280146	11280253	+	293	0	88	549	
329444	330064	+	10	11280267	11280422	+	608	0	100	620	
360258	361219	+	10	11280267	11280422	+	841	0	97	961	
360258	361219	+	10	12379949	12380231	-	833	0	97	961	
359941	361178	+	10	12379949	12380231	-	1058	0	96	1238	
359941	361178	+	10	14027516	14027649	+	1050	0	96	1238	
290625	292679	-	10	14027648	14027751	+	1994	0	99	2054	
288949	290617	-	10	14027751	14027907	+	1636	0	100	1668	
292957	293866	-	10	14028154	14028385	+	885	0	99	909	
288083	288990	-	10	14028384	14028499	+	839	0	98	907	
293896	294587	-	10	14028700	14028906	+	671	0	99	691	
290625	291224	+	10	14028907	14029107	+	560	0	98	600	
290324	290617	+	10	14029207	14029826	+	282	0	99	294	
292677	292948	-	10	14029870	14029969	+	267	0	100	271	
318206	318413	-	10	14029970	14030072	+	207	4.90E-108	100	207	
297010	297204	-	10	15775898	15776190	+	154	2.90E-96	94	198	
317357	317546	-	10	15786639	15786902	+	146	2.90E-69	94	190	
287933	288094	-	10	15973565	15973664	+	161	0	100	161	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
298570	298728	-	10	16659735	16659932	-	150	3.50E-71	99	158	
283423	283561	-	10	18089538	18089679	+	83	0	90	139	
283423	283542	+	10	18089686	18089901	+	80	1.80E-86	92	120	
243164	243266	+	10	18409802	18409938	-	86	1.80E-38	96	102	
246083	246260	+	10	18409802	18409938	-	94	1.50E-98	88	178	
247260	247370	+	10	18841699	18841833	+	47	1.50E-31	86	111	
247260	247370	+	10	18841699	18841833	+	47	1.50E-98	86	111	
250729	250961	+	10	19212895	19213087	+	221	7.00E-116	99	233	
268296	268494	-	10	19563117	19563497	+	143	1.00E-163	93	199	
268318	268494	-	10	19946322	19946440	-	129	7.70E-181	93	177	
268508	268707	-	10	19946322	19946440	-	171	1.00E-163	96	199	
268508	268760	-	10	19951124	19951231	-	220	7.70E-181	97	252	
268660	268760	-	10	19951124	19951231	-	96	8.10E-120	99	100	
281022	281139	+	10	19951390	19951546	-	106	9.60E-49	97	118	
203140	204040	+	10	19951390	19951546	-	75	5.00E-40	92	111	
205672	209102	+	10	19951869	19952015	-	105	1.30E-100	99	109	
207284	212317	+	10	19951869	19952015	-	84	8.40E-117	96	100	
221890	241546	+	10	19954778	19955023	-	106	2.60E-48	97	118	
226989	251737	+	10	19954778	19955023	-	110	2.20E-105	100	110	
228233	254222	+	10	19955031	19955290	-	107	8.40E-117	100	107	
230973	259749	+	10	19955031	19955290	-	78	7.20E-33	87	158	
235091	267959	-	10	19956660	19956787	-	84	3.10E-35	91	128	
236636	271122	+	10	19956660	19956787	-	193	6.40E-101	99	201	
238228	274321	-	10	19956793	19957748	-	139	1.40E-120	91	219	
238456	274701	-	10	19956793	19957748	-	106	1.40E-120	94	142	
240452	278661	-	10	19956829	19958060	-	100	2.10E-58	98	108	
180234	180334	+	10	19956829	19958060	-	100	5.50E-42	100	100	
201587	201686	+	10	19958061	19958186	-	85	1.60E-266	96	101	
192289	192398	+	10	19958061	19958186	-	101	3.30E-190	98	109	
190681	190797	-	10	19958249	19958505	-	112	5.60E-50	99	116	
162369	162504	+	10	19958249	19958505	-	123	5.20E-57	98	135	
177781	177936	-	10	19958715	19958844	-	128	1.30E-58	96	156	
171974	172208	+	10	19958715	19958844	-	198	1.60E-266	96	234	
183015	183253	+	10	19960462	19961003	-	230	1.60E-266	99	238	
148346	148445	-	10	19960462	19961003	-	84	1.10E-214	96	100	
155038	155145	+	10	19961345	19961548	-	108	4.30E-105	100	108	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
125478	125590	+	10	19961345	19961548	-	109	4.30E-105	99	113	
136927	137061	-	10	19961701	19961905	-	123	1.10E-214	98	135	
123903	124041	+	10	19961701	19961905	-	119	3.80E-58	96	139	
129682	129831	-	10	19969912	19970111	-	118	0	95	150	
122432	122582	+	10	19970114	19970903	-	131	0	97	151	
125022	125187	+	10	19973364	19973540	-	142	0	96	166	
126952	127121	+	10	19973555	19973806	-	158	0	98	170	
126952	127121	-	10	19975804	19975913	-	158	0	98	170	
126952	127121	-	10	20827996	20828165	+	146	0	96	170	
125299	125487	-	10	20827996	20828165	+	189	1.10E-214	100	189	
125097	125299	-	10	20828176	20829454	+	191	0	99	203	
125097	125299	+	10	20828176	20829454	+	191	0	99	203	
125097	125299	-	10	21698186	21698312	+	183	0	98	203	
122136	122371	+	10	22223582	22223770	+	216	0	98	236	
122680	123110	+	10	22223773	22223883	+	343	0	95	435	
121411	122138	+	10	22262811	22263807	+	670	0	98	734	
125299	126295	-	10	22262811	22263807	+	965	0	99	997	
125662	126941	-	10	22263815	22264017	+	1185	0	98	1281	
123245	124776	+	10	22263815	22264017	+	1428	0	98	1536	
125299	126943	+	10	22264916	22265209	+	1617	0	100	1645	
125299	126943	-	10	22265218	22265816	+	1593	0	99	1645	
26151	26267	+	11	19667	19831	+	113	2.00E-111	99	117	
36722	36850	+	11	19667	19831	+	117	2.00E-111	98	129	
29224	29353	-	11	3489368	3489471	+	90	0	92	130	
11541	11677	-	11	3673563	3673810	+	137	1.50E-154	100	137	
30524	30660	+	11	3816083	3816295	+	102	0	93	138	
8406	8545	-	11	4336140	4336370	+	136	1.50E-154	99	140	
27905	28055	+	11	4837106	4837253	-	107	0	93	151	
9977	10133	+	11	5944354	5944514	+	141	7.30E-69	97	157	
34099	34261	-	11	5944354	5944514	+	128	3.40E-60	95	164	
13795	13979	+	11	6102691	6103052	+	181	9.30E-93	99	185	
29999	30252	+	11	6102691	6103052	+	231	0	98	255	
35066	35426	-	11	6114149	6114269	+	310	5.80E-172	96	362	
28153	28707	+	11	7133062	7133262	-	369	0	91	561	
29367	29951	-	11	8268200	8268353	+	453	0	94	593	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
28738	29327	+	11	8404343	8404558	+	449	0	94	593	
29323	29991	+	11	8404567	8404757	+	490	0	93	674	
29582	30253	-	11	8404759	8404961	+	521	0	94	681	
120678	120795	+	11	8405090	8405245	+	113	2.90E-51	99	117	
92018	92140	-	11	9138546	9138653	+	110	3.30E-50	98	122	
100738	100871	-	11	9138546	9138653	+	105	1.30E-47	95	133	
90915	91048	+	11	9446009	9446126	+	94	2.00E-40	93	134	
106068	106205	-	11	10198893	10199043	+	137	1.60E-154	100	137	
102933	103073	-	11	10199056	10199284	+	136	1.60E-154	99	140	
90605	90756	-	11	10199056	10199284	+	147	1.40E-70	99	151	
104504	104661	+	11	10835676	10835839	+	141	6.60E-66	97	157	
115183	115342	+	11	10835839	10835955	+	83	3.00E-34	88	159	
108322	108507	+	11	10835839	10835955	+	181	9.40E-93	99	185	
90186	90387	-	11	10836048	10836156	+	110	1.30E-90	89	202	
46463	46581	-	11	10836405	10836563	+	82	5.00E-34	92	118	
48896	49025	+	11	10836563	10836691	+	97	2.00E-41	94	129	
49681	49835	+	11	10836563	10836691	+	150	2.30E-71	99	154	
460565	460765	+	11	10836689	10836838	+	94	2.20E-38	86	206	
487425	487590	+	11	10836840	10836946	+	145	3.70E-71	97	165	
447295	447457	+	11	11462762	11462863	-	99	2.80E-46	90	163	
480993	481120	+	11	11463698	11463820	-	123	2.80E-58	99	127	
459284	459395	+	11	11874119	11874221	-	95	1.40E-39	96	111	
486469	486578	+	11	11874403	11874504	-	101	2.30E-47	98	109	
458802	458910	-	11	11876315	11876454	-	96	7.20E-148	97	108	
456154	456260	+	11	11876315	11876454	-	102	1.40E-61	99	106	
464292	464398	-	11	11876577	11876682	-	102	2.90E-44	99	106	
450231	450336	-	11	11876577	11876682	-	98	5.60E-43	98	106	
410895	410999	-	11	11876877	11876980	-	96	8.90E-142	98	104	
439754	439863	+	11	11876877	11876980	-	85	3.80E-65	95	109	
433761	433873	-	11	11876877	11876980	-	104	8.90E-142	98	112	
433435	433581	+	11	11878147	11878295	-	138	4.30E-67	99	146	
427991	428140	+	11	11878147	11878295	-	149	3.60E-150	100	149	
408458	408608	+	11	11878292	11878394	-	142	6.50E-69	99	150	
439277	439439	+	11	11879095	11879231	-	150	3.90E-73	98	162	
441766	441995	+	11	11879095	11879231	-	173	2.20E-88	94	229	
439390	439653	-	11	11879516	11879627	-	126	9.60E-57	87	266	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
396856	396958	-	11	11879516	11879627	-	102	1.40E-122	100	102	
375067	375173	+	11	11879624	11879750	-	102	1.30E-100	99	106	
383205	383311	-	11	11879752	11879860	-	102	6.90E-46	99	106	
369144	369249	-	11	11879752	11879860	-	98	1.00E-43	98	106	
377715	377823	-	11	11879860	11879967	-	96	3.20E-148	97	108	
366208	366370	+	11	11879860	11879967	-	99	3.80E-46	90	163	
386980	387174	+	11	12437397	12437502	-	186	1.80E-93	99	194	
358667	358776	+	11	12437397	12437502	-	85	1.70E-64	95	109	
352674	352786	-	11	12543281	12543437	-	104	1.30E-100	98	112	
329401	329513	-	11	12543281	12543437	-	100	2.00E-45	97	112	
335847	335984	+	11	12857760	12857892	+	129	8.10E-62	99	137	
352348	352494	+	11	13074155	13074260	+	138	4.30E-67	99	146	
346904	347053	+	11	13074155	13074260	+	149	3.60E-150	100	149	
338961	339120	-	11	14057236	14057455	+	103	6.60E-45	91	159	
358190	358352	+	11	14057456	14057649	+	150	3.90E-73	98	162	
350736	350924	+	11	14057692	14057799	+	105	1.10E-46	89	193	
360679	360908	+	11	14057795	14057905	+	173	2.20E-88	94	229	
358303	358566	-	11	14258021	14258134	-	126	2.50E-57	87	266	
293891	294153	+	11	14813980	14814090	-	143	1.90E-72	88	267	
291138	291369	+	11	16034382	16034639	+	199	3.90E-103	97	231	
322716	322898	-	11	16428280	16428624	+	170	1.60E-88	98	182	
292407	292566	-	11	17130263	17130389	+	155	1.20E-74	99	159	
289640	289787	+	11	17130263	17130389	+	136	4.70E-65	98	148	
308414	308541	-	11	17130484	17130668	+	127	1.70E-103	100	127	
312925	313043	+	11	17130484	17130668	+	118	3.00E-55	100	118	
312170	312278	-	11	17403197	17403452	+	88	6.50E-73	95	108	
242827	242936	-	11	17403197	17403452	+	109	6.40E-49	100	109	
244869	245033	+	11	17792914	17793070	+	156	1.30E-166	99	164	
249068	249175	+	11	17916842	17916997	+	107	1.30E-166	100	107	
249371	249474	+	11	18852064	18852744	+	103	1.30E-46	100	103	
262001	262346	+	11	18852064	18852744	+	329	1.70E-180	99	345	
279980	280084	-	11	18852368	18852960	+	96	1.80E-71	98	104	
282445	282597	+	11	18852368	18852960	+	101	7.30E-45	91	157	
212096	221950	-	11	18852974	18853103	+	77	1.70E-59	93	109	
220848	239449	-	11	18852974	18853103	+	96	1.10E-107	98	104	
223137	244023	-	11	18888559	18888708	+	38	9.10E-44	84	102	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
223228	244228	-	11	18888559	18888708	+	67	9.10E-44	89	123	
231948	261688	+	11	18888816	18889366	+	88	8.40E-44	90	144	
232365	262599	-	11	18888816	18889366	+	212	1.10E-109	99	220	
234684	267263	-	11	18889388	18889978	+	184	3.20E-183	94	248	
235071	268008	+	11	18889388	18889978	+	132	6.80E-66	90	220	
239943	277643	+	11	18895107	18895774	+	96	4.40E-43	97	108	
163368	163477	+	11	18895107	18895774	+	101	1.10E-99	98	109	
172710	172831	-	11	18895775	18896029	+	98	6.40E-42	95	122	
164324	164489	+	11	18895775	18896028	+	145	7.50E-72	97	165	
198472	198642	-	11	18896282	18896448	+	146	3.10E-74	96	170	
195909	196122	+	11	18896311	18896448	+	201	5.70E-102	99	213	
126726	126829	-	11	19046307	19046488	+	96	6.30E-43	98	104	
157892	158018	+	11	19222782	19222949	+	123	1.60E-60	99	127	
158687	158812	+	11	19851498	19851606	+	67	2.40E-25	88	127	
131249	131377	+	11	19851606	19851726	+	117	8.10E-52	98	129	
123751	123880	-	11	21710175	21710314	+	90	0	92	130	
122432	122582	+	11	22835381	22835542	+	107	0	93	151	
128626	128788	-	11	22835381	22835542	+	128	1.50E-59	95	164	
125022	125187	+	11	22835543	22835678	+	131	0	95	167	
124526	124778	+	11	22928569	22928701	+	230	0	98	254	
129593	129953	-	11	23088709	23088854	+	310	3.50E-166	96	362	
122680	123234	+	11	23088709	23088854	+	369	0	91	561	
123894	124478	-	11	24724410	24724571	+	453	0	94	593	
123265	123854	+	11	24724410	24724571	+	449	0	94	593	
123850	124518	+	11	26294483	26294611	-	490	0	93	674	
124109	124780	-	11	27218219	27218340	-	521	0	94	681	
33397	33497	-	12	18074	18238	+	101	0	100	101	
5608	5709	-	12	18074	18238	+	98	0	99	102	
549	651	-	12	163262	163483	+	103	1.30E-48	100	103	
1274	1382	-	12	163701	163807	+	105	0	99	109	
24860	24969	+	12	192584	192688	-	106	0	99	110	
13301	13411	+	12	2800596	2800718	-	103	0	98	111	
35224	35335	+	12	4566461	4566587	-	108	2.30E-227	99	112	
2459	2574	-	12	4566461	4566587	-	112	0	99	116	
6938	7054	+	12	4566588	4566711	-	117	0	100	117	



Mitochondria								Stats		
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
18923	19038	+	12	4566712	4566873	-	97	6.70E-82	96	117
18923	19038	-	12	4566873	4566993	-	97	6.10E-51	96	117
18923	19038	-	12	4676025	4676135	-	97	0	96	117
20667	20784	-	12	4676197	4676353	-	114	0	99	118
31500	31626	+	12	4676552	4676755	-	123	0	99	127
12416	12542	+	12	4676552	4676755	-	119	1.60E-55	98	127
30574	30701	-	12	4676756	4676876	-	105	4.40E-45	95	129
13009	13138	-	12	4676877	4676996	-	126	0	99	130
7413	7543	-	12	4677063	4677169	-	127	0	99	131
5862	5996	+	12	4677360	4677501	-	135	3.50E-226	100	135
34526	34664	+	12	4677360	4677497	-	135	9.10E-280	99	139
30524	30662	+	12	4677544	4677698	-	103	1.80E-59	94	139
33424	33563	-	12	4677544	4677698	-	136	2.60E-149	99	140
1118	1259	+	12	4677852	4678109	-	142	7.60E-146	100	142
5229	5371	+	12	4678178	4678415	-	140	6.00E-281	99	144
12542	12688	-	12	4678178	4678415	-	143	0	99	147
35155	35304	+	12	4678416	4678593	-	118	1.70E-86	95	150
5698	5848	-	12	4678711	4678855	-	151	0	100	151
27905	28055	-	12	4678854	4678962	-	139	0	98	151
921	1075	+	12	4679200	4679301	-	151	7.60E-146	99	155
13577	13732	+	12	4679301	4679436	-	156	9.00E-279	100	156
468	625	-	12	4751402	4751537	-	158	0	100	158
31339	31499	-	12	5607904	5608114	-	157	0	99	161
10091	10258	+	12	5607904	5608114	-	168	0	100	168
32426	32594	+	12	5608120	5608247	-	145	0	96	169
29592	29768	-	12	5608120	5608247	-	173	0	99	177
9468	9645	-	12	5609615	5609874	-	170	0	99	178
142	331	+	12	5609615	5609874	-	186	0	99	190
5783	5979	-	12	5609882	5610375	-	197	0	100	197
7334	7541	+	12	5609882	5610375	-	208	6.00E-281	100	208
6582	6790	+	12	5610388	5611675	-	205	0	100	209
6079	6287	+	12	5610388	5610943	-	165	4.80E-80	95	209
16913	17131	+	12	5610944	5611675	-	211	9.10E-280	99	219
1560	1784	+	12	5611680	5611915	-	166	0	93	226
7840	8073	+	12	5611680	5611915	-	230	0	100	234
27609	27844	-	12	5612186	5612336	-	208	0	97	236



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
34222	34459	+	12	5612186	5612336	-	230	2.30E-227	99	238	
8718	8960	-	12	5612445	5612874	-	235	0	99	243	
2154	2413	+	12	5612451	5612874	-	201	0	94	261	
25585	25838	-	12	5613046	5614572	-	185	0	93	261	
25585	25838	-	12	5613046	5614572	-	181	0	92	261	
2356	2617	-	12	5633225	5633370	-	258	0	100	262	
39928	40203	-	12	5633225	5633370	-	272	0	100	276	
2757	3052	+	12	5633988	5634091	-	292	0	100	296	
10284	10603	-	12	5633988	5634091	-	320	0	100	320	
18053	18382	+	12	5640469	5640618	-	326	0	100	330	
20448	20793	+	12	5640469	5640618	-	330	0	99	346	
1797	2146	+	12	5651340	5652048	+	247	0	93	351	
40090	40470	-	12	5656834	5657023	+	381	0	100	381	
25447	25852	-	12	5865190	5865298	+	394	0	99	406	
28159	28583	-	12	6209831	6209956	-	329	0	94	429	
29456	29926	-	12	6209831	6209956	-	463	0	100	471	
25834	26324	-	12	7595063	7595232	+	431	0	97	495	
25834	26324	-	12	7595063	7595232	+	423	0	96	495	
31289	31898	-	12	7595232	7595376	+	578	0	99	610	
31289	31898	-	12	8525680	8526008	+	578	0	99	610	
35847	36461	-	12	8525680	8526008	+	579	0	99	615	
6111	6733	-	12	8526021	8526979	+	619	0	100	623	
6728	7395	-	12	8526021	8526978	+	660	0	100	668	
26328	27080	-	12	8527115	8528408	+	701	0	98	753	
18391	19208	+	12	8527115	8528408	+	775	0	99	819	
31374	32416	+	12	8528524	8533263	+	961	0	98	1045	
19217	20438	+	12	8528524	8533263	+	1166	0	99	1222	
20448	21671	+	12	8536303	8536576	+	1148	0	98	1224	
6111	7395	-	12	8536577	8536762	+	1285	0	100	1285	
26328	27611	-	12	8536771	8538186	+	1179	0	98	1291	
28727	30249	-	12	8538189	8538536	+	1399	0	98	1527	
21686	23237	+	12	8538538	8538799	+	1477	0	99	1553	
22103	26839	-	12	8538964	8539204	+	4469	0	99	4745	
100135	100237	-	12	8539230	8539559	+	98	0	99	102	
95076	95179	-	12	8539230	8539559	+	103	2.40E-178	100	103	
93302	93405	+	12	8539568	8540385	+	99	1.20E-262	99	103	





Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
91079	91184	-	12	8539568	8540385	+	93	0	97	105	
95801	95910	-	12	8540099	8540215	+	105	0	99	109	
81090	81199	-	12	8540402	8541622	+	105	0	99	109	
119387	119497	+	12	8540402	8541622	+	106	0	99	110	
107828	107939	+	12	8541635	8542857	+	103	0	98	111	
91036	91148	+	12	8541635	8542857	+	112	1.0e-314	100	112	
92467	92579	-	12	8542873	8544422	+	108	0	99	112	
96986	97102	-	12	8542873	8544422	+	112	0	99	116	
101465	101582	+	12	8544452	8544663	+	117	1.0e-313	100	117	
113450	113566	+	12	8544659	8546207	+	97	0	96	117	
113450	113566	-	12	8546270	8547026	+	97	4.30E-50	96	117	
113450	113566	-	12	8547036	8547252	+	97	2.10E-146	96	117	
115194	115312	-	12	8547798	8547941	+	114	0	99	118	
81411	81532	-	12	8547798	8547941	+	117	0	99	121	
106943	107070	+	12	8553845	8555601	+	119	2.40E-54	98	127	
107536	107666	-	12	8553845	8555847	+	126	2.40E-205	99	130	
93649	93779	-	12	8555294	8555511	+	126	0	99	130	
111908	112038	+	12	8555874	8556002	+	114	6.30E-53	97	130	
101940	102071	-	12	8555874	8556002	+	127	0	99	131	
100389	100524	+	12	8556008	8557884	+	135	1.10E-225	100	135	
95649	95787	+	12	8557143	8557884	+	138	6.90E-143	100	138	
89177	89317	-	12	8557143	8557884	+	132	0	99	140	
94261	94404	-	12	8557893	8558444	+	143	0	100	143	
90508	90651	+	12	8557893	8558444	+	123	4.40E-55	97	143	
99756	99899	+	12	8557893	8558444	+	140	1.0e-314	99	144	
107069	107216	-	12	8558487	8559333	+	143	0	99	147	
91504	91654	-	12	8559333	8559913	+	142	0	99	150	
100225	100376	-	12	8560014	8560486	+	151	0	100	151	
95448	95603	+	12	8690546	8690687	-	151	6.90E-143	99	155	
108104	108260	+	12	8690546	8690687	-	156	9.60E-250	100	156	
94995	95153	-	12	8738516	8738809	-	158	0	100	158	
104618	104786	+	12	9361394	9361502	-	168	0	100	168	
87258	87429	-	12	11282869	11282998	-	151	0	97	171	
103995	104173	-	12	11282869	11282998	-	170	2.10E-146	99	178	
94669	94859	+	12	11283209	11283465	-	186	1.0e-313	99	190	
81800	81991	+	12	11283209	11283465	-	171	1.10E-128	97	191	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
100310	100507	-	12	11283528	11283653	-	197	0	100	197	
101861	102069	+	12	11283528	11283653	-	208	1.0e-314	100	208	
101109	101318	+	12	11283654	11284885	-	205	0	100	209	
100606	100815	+	12	11283654	11284885	-	165	4.90E-80	95	209	
111440	111659	+	12	11283966	11284921	-	211	1.40E-243	99	219	
96087	96312	+	12	11283966	11284921	-	166	0	93	226	
102367	102601	+	12	11284927	11285054	-	230	1.0e-313	100	234	
103245	103488	-	12	11284927	11285054	-	235	0	99	243	
86009	86265	+	12	11286421	11286680	-	240	9.00E-173	98	256	
96681	96941	+	12	11286421	11286680	-	201	0	94	261	
120112	120366	-	12	11286688	11287181	-	185	0	93	261	
120112	120366	-	12	11286688	11287181	-	181	0	92	261	
96883	97145	-	12	11287194	11287946	-	258	0	100	262	
97284	97580	+	12	11287194	11287749	-	292	0	100	296	
84582	84881	-	12	11287750	11287946	-	291	0	99	299	
89392	89709	-	12	11411920	11412088	-	305	0	99	317	
104811	105131	-	12	11411920	11412088	-	320	0	100	320	
112580	112910	+	12	11412098	11413142	-	326	0	100	330	
114975	115321	+	12	11412098	11413142	-	330	0	99	346	
96324	96674	+	12	12373622	12373829	+	247	0	93	351	
119974	120380	-	12	13049922	13050133	+	394	0	99	406	
120361	120852	-	12	13050174	13050278	+	431	0	97	495	
120361	120852	-	12	13050279	13050447	+	423	0	96	495	
120855	121411	-	12	13050279	13050447	+	532	0	99	556	
120855	121411	-	12	13050856	13050986	+	524	0	99	556	
100638	101261	-	12	13050856	13051843	+	619	0	100	623	
101255	101923	-	12	13050856	13051843	+	660	0	100	668	
91504	92238	+	12	13051993	13052118	+	734	0	100	734	
112918	113736	+	12	13051993	13052118	+	775	0	99	819	
113744	114966	+	12	13321149	13321385	-	1166	0	99	1222	
114975	116199	+	12	13340686	13340907	-	1148	0	98	1224	
100638	101923	-	12	13340907	13341237	-	1285	0	100	1285	
90139	91490	+	12	13341239	13341372	-	1351	0	100	1351	
116213	117765	+	12	13341442	13341599	-	1477	0	99	1553	
80941	84070	+	12	13341599	13341713	-	3125	0	100	3129	
116630	121367	-	12	13341715	13341832	-	4469	0	99	4745	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
84080	90129	+	12	13342161	13342297	-	6029	0	100	6049	
78937	79038	-	12	13342161	13342297	-	101	1.50E-77	100	101	
47348	47450	+	12	13342548	13342680	-	102	2.10E-75	100	102	
47183	47287	+	12	13342681	13342785	-	104	0	100	104	
61570	61675	+	12	13342786	13342901	-	105	3.60E-74	100	105	
51359	51464	+	12	13342786	13342901	-	101	9.00E-69	99	105	
44485	44590	-	12	13342786	13342901	-	101	8.70E-175	99	105	
61026	61132	+	12	13343235	13343360	-	94	2.40E-81	97	106	
53377	53483	+	12	13343359	13343461	-	90	0	96	106	
53377	53483	-	12	13343359	13343461	-	90	1.20E-106	96	106	
53377	53483	-	12	13343460	13343709	-	86	3.10E-74	95	106	
53377	53483	+	12	13343995	13344174	-	86	0	95	106	
59939	60050	+	12	13344174	13344303	-	103	1.80E-201	98	111	
40907	41022	-	12	13344303	13344423	-	111	4.50E-306	99	115	
59192	59310	-	12	13344303	13344423	-	118	4.50E-306	100	118	
47357	47475	-	12	13344424	13344528	-	83	1.30E-34	92	119	
50022	50143	-	12	13344424	13344528	-	109	3.50E-52	98	121	
52696	52817	+	12	13344619	13344744	-	105	3.30E-48	97	121	
47393	47529	+	12	13344619	13344744	-	120	4.50E-86	97	136	
57911	58048	+	12	13344743	13344870	-	101	1.60E-84	93	137	
52751	52896	-	12	13344743	13344870	-	141	1.70E-163	99	145	
72609	72756	-	12	13344871	13345090	-	143	4.50E-306	99	147	
51448	51599	-	12	13344871	13345090	-	139	1.60E-66	98	151	
60051	60203	-	12	13345230	13345345	-	144	4.50E-306	99	152	
65732	65884	-	12	13345345	13345725	-	140	1.70E-163	98	152	
46869	47026	+	12	13345345	13345725	-	87	1.60E-37	88	163	
65584	65765	+	12	13345724	13345839	-	177	0	99	181	
72790	72975	-	12	13345724	13345839	-	175	8.70E-146	98	187	
72892	73102	+	12	13345840	13345943	-	196	0	98	212	
75427	75645	+	12	13345840	13345943	-	198	0	98	218	
72493	72735	+	12	13346025	13346254	-	238	0	100	242	
74728	74970	-	12	13346255	13346393	-	238	6.10E-155	100	242	
48136	48419	+	12	13346488	13346729	-	283	0	100	283	
66515	66801	+	12	13346731	13346872	-	258	7.30E-308	98	286	
76806	77144	-	12	13346971	13347161	-	284	2.90E-154	96	340	
65176	65576	+	12	13347162	13347300	-	396	0	100	400	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
51835	52334	+	12	13347162	13347300	-	495	0	100	499	
58256	58778	+	12	13347388	13347538	-	522	0	100	522	
58786	59310	+	12	13347576	13347684	-	512	0	99	524	
64582	65168	+	12	13347576	13347684	-	582	0	100	586	
72079	72768	+	12	13347685	13347823	-	689	0	100	689	
69069	69816	+	12	13347685	13347823	-	747	0	100	747	
74685	75442	+	12	13347824	13348435	-	729	0	99	757	
79884	80664	+	12	13347824	13348435	-	619	0	95	783	
69824	70647	+	12	13348433	13348639	-	823	0	100	823	
52375	53321	+	12	13348433	13348639	-	946	0	100	946	
79884	80941	+	12	13348654	13348779	-	1057	0	100	1057	
70660	72071	+	12	13348654	13348779	-	1407	0	100	1411	
73149	74698	+	12	13348842	13349098	-	1465	0	99	1549	
59318	61132	+	12	13348842	13349098	-	1747	0	99	1815	
78009	79869	+	12	13349496	13349637	-	1856	0	100	1860	
44743	47168	+	12	13349496	13349637	-	2287	0	99	2430	
65770	69056	+	12	13349638	13349737	-	3282	0	100	3286	
61140	64574	+	12	13349638	13349737	-	3406	0	100	3434	
40471	44743	-	12	13349738	13350085	-	4216	0	100	4280	
47295	51836	+	12	13350083	13350186	-	4514	0	100	4542	
53329	58248	+	12	13350267	13350376	-	4915	0	100	4919	
72786	78000	+	12	13350647	13350843	-	5182	0	100	5218	
488912	490521	+	12	13350842	13351052	-	1597	0	100	1609	
488912	490521	+	12	13350842	13351052	-	1593	0	100	1609	
465116	466411	+	12	13350842	13351052	-	1247	0	99	1295	
464073	465033	+	12	13351057	13351246	-	892	0	98	960	
471300	472042	-	12	13351415	13351599	-	742	0	100	742	
471300	472042	+	12	13351598	13351710	-	714	0	99	742	
488257	488904	+	12	13351598	13351710	-	600	0	98	652	
488257	488904	+	12	13351713	13352004	-	600	0	98	652	
472051	472604	-	12	13351713	13352004	-	549	0	100	553	
472051	472604	+	12	13352194	13352370	-	493	0	97	553	
459702	460105	-	12	13352194	13352370	-	331	3.20E-182	96	403	
454723	455118	-	12	13352432	13352691	-	375	1.20E-203	99	395	
485510	485891	-	12	13352687	13352823	-	369	0	99	381	
488150	488511	-	12	13352687	13352823	-	341	5.70E-239	99	361	

Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
446952	447312	-	12	13352928	13353183	-	348	0	99	360	
463735	464064	+	12	13353182	13353285	-	297	0	98	329	
480504	480813	-	12	13353284	13353397	-	301	0	99	309	
464182	464474	+	12	13353284	13353397	-	264	0	98	292	
483870	484079	-	12	13353398	13353540	-	205	0	100	209	
474629	474836	-	12	13353749	13353851	-	199	0	99	207	
459126	459328	+	12	13353851	13354088	-	188	2.50E-167	98	204	
488912	489115	+	12	13354088	13354227	-	191	4.90E-185	99	203	
484930	485129	-	12	13354227	13354359	-	199	0	100	199	
459270	459461	+	12	13354227	13354359	-	191	0	100	191	
466374	466556	-	12	13354235	13354359	-	182	0	100	182	
453965	454146	+	12	13354419	13354679	-	181	0	100	181	
472903	473073	-	12	13354419	13354679	-	162	6.10E-82	99	170	
460599	460768	+	12	13354967	13355096	-	169	4.90E-185	100	169	
448697	448866	+	12	13355145	13355286	-	165	1.70E-85	99	169	
463556	463725	+	12	13355145	13355286	-	165	1.20E-146	99	169	
487425	487590	+	12	13355287	13355418	-	145	1.40E-73	97	165	
485794	485956	-	12	13355416	13355545	-	154	0	99	162	
474015	474174	-	12	13355416	13355545	-	144	0	98	160	
464210	464356	+	12	13355591	13355696	-	45	5.50E-54	82	153	
449146	449290	+	12	13355698	13355847	-	89	1.20E-68	90	149	
451204	451351	+	12	13355698	13355847	-	139	1.40E-90	99	147	
453857	454002	+	12	13355848	13355982	-	141	2.50E-167	99	145	
450529	450672	-	12	13355848	13355982	-	136	0	99	144	
450188	450331	+	12	13355983	13356404	-	103	1.00E-50	93	143	
490163	490305	-	12	13356407	13356695	-	138	0	99	142	
459736	459877	-	12	13356826	13356939	-	133	0	99	141	
466183	466320	-	12	13357110	13357219	-	137	0	100	137	
472664	472797	+	12	13357110	13357219	-	133	5.50E-291	100	133	
462723	462851	+	12	13369525	13369626	-	100	1.40E-44	95	128	
461341	461466	+	12	13369628	13369893	-	103	1.90E-42	95	127	
486492	486618	+	12	13369894	13370177	-	126	1.20E-146	100	126	
477493	477617	-	12	13370176	13370521	-	120	0	99	124	
488652	488776	+	12	13370176	13370521	-	120	1.00E-139	99	124	
485922	486043	-	12	13370615	13370752	-	121	0	100	121	
486641	486754	-	12	13370842	13370962	-	105	0	98	113	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
446830	446941	-	12	13371089	13371285	-	103	0	98	111	
486197	486307	-	12	13371089	13371285	-	106	0	99	110	
459772	459881	-	12	13371501	13371691	-	109	0	100	109	
449021	449129	+	12	13371501	13371691	-	69	1.20E-68	91	109	
463485	463590	+	12	13371907	13372115	-	44	5.50E-54	85	108	
479797	479904	+	12	13371907	13372115	-	103	1.00E-139	99	107	
458494	458599	-	12	13372253	13372433	-	94	7.60E-120	97	106	
473563	473668	-	12	13372253	13372433	-	105	0	100	105	
451516	451619	+	12	13372504	13372864	-	103	4.10E-45	100	103	
416243	416343	-	12	13373052	13373295	-	92	7.10E-247	98	100	
434960	435064	-	12	13373298	13373505	-	104	0	100	104	
410566	410670	-	12	13373298	13373505	-	96	3.90E-247	98	104	
408611	408716	+	12	13373504	13373627	-	101	0	99	105	
408677	408783	-	12	13373688	13373874	-	106	8.90E-114	100	106	
420769	420876	-	12	13373874	13373982	-	87	1.10E-145	95	107	
414406	414516	+	12	13374067	13374169	-	110	0	100	110	
412503	412614	-	12	13374170	13374308	-	111	0	100	111	
421064	421175	+	12	13374317	13374567	-	111	0	100	111	
437128	437242	-	12	13374664	13374838	-	106	0	98	114	
411412	411528	+	12	13374840	13375081	-	112	8.50E-256	99	116	
405573	405690	+	12	13375184	13375313	-	113	0	99	117	
433872	433991	+	12	13375309	13375423	-	99	1.80E-106	96	119	
433872	433991	-	12	13375309	13375423	-	99	6.20E-146	96	119	
433872	433991	-	12	13375512	13375635	-	95	3.10E-305	95	119	
413783	413904	+	12	13375512	13375635	-	113	0	98	121	
411707	411829	-	12	13375827	13376007	-	118	0	99	122	
441141	441265	+	12	13376092	13376235	-	120	0	99	124	
429536	429662	-	12	13376092	13376235	-	126	0	100	126	
440892	441018	+	12	13376240	13376353	-	102	0	95	126	
440892	441018	-	12	13376438	13376544	-	98	0	94	126	
442305	442427	-	12	13376438	13376544	-	81	1.80E-128	91	129	
442305	442427	-	12	13376623	13376918	-	77	0	90	129	
410568	410698	+	12	13376623	13376918	-	130	0	100	130	
440107	440237	-	12	13376919	13377064	-	90	0	92	130	
409281	409410	-	12	13377065	13377216	-	123	1.10E-55	98	131	
405313	405446	+	12	13377450	13377560	-	130	0	99	134	

Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
428872	429009	-	12	13377559	13377685	-	129	0	99	137	
414800	414937	+	12	13377783	13377940	-	125	0	98	137	
416782	416920	+	12	13378015	13378127	-	136	0	99	138	
424999	425138	-	12	13378131	13378239	-	139	1.10E-274	100	139	
428587	428729	-	12	13378131	13378239	-	138	5.90E-150	99	142	
423936	424079	-	12	13378239	13378381	-	139	8.20E-161	99	143	
412481	412624	-	12	13378239	13378381	-	139	6.20E-146	99	143	
412481	412624	+	12	13378540	13378651	-	135	0	99	143	
415339	415489	+	12	13378540	13378651	-	130	0	97	150	
412420	412571	+	12	13378708	13378838	-	151	0	100	151	
423657	423809	+	12	13378708	13378838	-	140	0	98	152	
422854	423007	+	12	13378836	13378994	-	153	0	100	153	
411613	411768	+	12	13378836	13378994	-	143	1.40E-69	98	155	
441867	442023	+	12	13379059	13379176	-	152	2.60E-197	99	156	
440888	441043	-	12	13379187	13379469	-	129	8.50E-62	96	157	
413286	413450	-	12	13379694	13379814	-	156	0	99	164	
418196	418372	+	12	13379694	13379814	-	164	0	98	176	
411850	412043	-	12	13379987	13380097	-	185	0	99	193	
441229	441422	+	12	13380097	13380201	-	185	2.00E-244	99	193	
423949	424144	-	12	13380202	13380521	-	187	0	99	195	
433563	433765	+	12	13380202	13380521	-	202	0	100	202	
423696	423900	+	12	13380521	13380796	-	204	1.70E-108	100	204	
412078	412289	+	12	13380521	13380796	-	203	0	99	211	
442090	442306	-	12	13380797	13380927	-	172	1.80E-128	95	216	
442291	442511	+	12	13380927	13381235	-	220	0	100	220	
416625	416847	+	12	13380927	13381235	-	220	0	100	222	
420872	421094	-	12	13381543	13381664	-	206	1.10E-145	98	222	
426086	426324	-	12	13381664	13381815	-	238	1.30E-128	100	238	
406620	406862	-	12	13381959	13382264	-	199	1.80E-101	95	243	
440518	440774	-	12	13382265	13382369	-	206	0	95	258	
440518	440774	+	12	13382265	13382369	-	202	0	95	258	
443085	443346	-	12	13382625	13382827	-	253	0	99	261	
413091	413359	+	12	13382905	13383072	-	252	0	99	268	
411429	411704	+	12	13382905	13383072	-	255	0	98	275	
423885	424161	-	12	13383072	13383223	-	272	2.90E-239	100	276	
441780	442060	+	12	13383072	13383223	-	276	0	100	280	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
419772	420064	+	12	13383222	13383341	-	252	2.40E-134	97	292	
422461	422877	-	12	13383605	13383751	-	374	0	97	422	
442180	442602	-	12	13383937	13384083	-	299	3.00E-161	93	423	
421500	422461	-	12	13383937	13384083	-	957	0	100	961	
441345	442306	-	12	13384084	13384203	-	837	0	97	961	
430120	431205	+	12	13384204	13384467	-	1081	0	100	1085	
441028	442265	-	12	13384467	13384704	-	1054	0	96	1238	
414800	416263	+	12	13384467	13384704	-	1451	0	100	1463	
411337	412864	+	12	13384848	13384963	-	1515	0	100	1527	
412862	414792	+	12	13384967	13385122	-	1922	0	100	1930	
409281	411324	+	12	13384967	13385122	-	2039	0	100	2043	
416262	421494	+	12	13385122	13385397	-	5214	0	100	5232	
403017	403118	+	12	13385122	13385397	-	97	0	99	101	
370429	370532	+	12	13385489	13385605	-	103	1.00E-45	100	103	
402594	402697	-	12	13385606	13385777	-	99	4.30E-216	99	103	
393996	394102	+	12	13385854	13385964	-	106	1.20E-281	100	106	
396382	396488	+	12	13385854	13385964	-	102	2.80E-246	99	106	
377407	377512	-	12	13385971	13386073	-	94	1.20E-107	97	106	
382398	382503	+	12	13385971	13386073	-	44	3.60E-56	85	108	
378685	378794	-	12	13386163	13386273	-	109	4.10E-121	100	109	
367934	368042	+	12	13386163	13386273	-	69	3.90E-70	91	109	
365743	365854	-	12	13386282	13386641	-	103	0	98	111	
399391	399517	-	12	13386282	13386641	-	122	4.00E-303	99	126	
380254	380379	+	12	13386639	13386764	-	103	2.70E-45	95	127	
381636	381764	+	12	13386765	13387044	-	100	1.10E-44	95	128	
392151	392283	+	12	13386765	13387044	-	128	1.10E-261	99	132	
385096	385233	-	12	13387044	13387373	-	137	4.00E-303	100	137	
389249	389389	-	12	13387370	13387538	-	128	2.80E-58	98	140	
378649	378790	-	12	13387370	13387538	-	133	9.00E-238	99	141	
369101	369244	+	12	13387539	13387696	-	103	6.50E-51	93	143	
369442	369585	-	12	13387539	13387696	-	136	4.10E-121	99	144	
372770	372915	+	12	13387695	13387856	-	141	0	99	145	
370117	370264	+	12	13387695	13387856	-	139	1.20E-137	99	147	
368059	368203	+	12	13387929	13388133	-	89	3.90E-70	90	149	
383123	383269	+	12	13388212	13388364	-	45	3.60E-56	82	153	
395804	395966	-	12	13388212	13388364	-	154	3.10E-77	99	162	





Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
379512	379681	+	12	13388364	13388464	-	169	0	100	169	
367610	367779	+	12	13388464	13388584	-	165	1.50E-85	99	169	
382469	382638	+	12	13388853	13388992	-	165	3.70E-81	99	169	
393777	393955	+	12	13388853	13388992	-	166	0	98	178	
372878	373059	+	12	13388993	13389140	-	181	0	100	181	
401321	401502	+	12	13389141	13389272	-	161	3.90E-159	97	181	
385287	385469	-	12	13389273	13389419	-	182	0	100	182	
392620	392807	+	12	13389273	13389419	-	179	0	99	187	
378183	378374	+	12	13389608	13389869	-	191	0	100	191	
402791	402995	-	12	13389608	13389869	-	200	0	100	204	
378039	378241	+	12	13389869	13390124	-	188	0	98	204	
400578	400797	-	12	13390130	13390433	-	215	9.40E-226	100	219	
400578	400797	+	12	13390620	13390909	-	211	2.90E-153	99	219	
401717	401955	-	12	13390907	13391377	-	234	4.00E-303	100	238	
393419	393663	+	12	13390907	13391377	-	240	2.60E-210	100	244	
399754	400015	-	12	13391377	13391511	-	90	3.90E-47	83	266	
400686	400973	+	12	13391510	13391645	-	287	0	100	287	
383095	383387	+	12	13391661	13391810	-	264	0	98	292	
382648	382977	+	12	13391812	13391912	-	297	0	98	329	
365865	366225	-	12	13392100	13392292	-	348	0	99	360	
373636	374031	-	12	13392100	13392292	-	375	2.70E-203	99	395	
378615	379018	-	12	13392100	13392292	-	331	2.00E-181	96	403	
395692	396401	+	12	13392293	13392500	-	657	0	98	709	
382986	383945	+	12	13392293	13392500	-	891	0	98	959	
384029	385324	+	12	13392670	13392772	-	1247	0	99	1295	
353873	353977	-	12	13392773	13392883	-	104	0	100	104	
323782	323892	+	12	13392885	13393098	-	102	0	98	110	
334897	335008	+	12	13393182	13393284	-	107	0	99	111	
356041	356155	-	12	13393385	13393528	-	106	0	98	114	
352785	352904	-	12	13393385	13393528	-	99	2.70E-42	96	119	
352785	352904	-	12	13393528	13393699	-	99	5.70E-68	96	119	
352785	352904	+	12	13393699	13393822	-	99	1.00E-71	96	119	
352785	352904	-	12	13393699	13393822	-	95	2.30E-184	95	119	
360054	360178	+	12	13393822	13393985	-	120	0	99	124	
362827	362950	-	12	13393822	13393985	-	112	2.80E-48	98	124	
348449	348575	-	12	13393987	13394113	-	126	0	100	126	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
359805	359931	+	12	13393987	13394113	-	102	0	95	126	
359805	359931	-	12	13394113	13394399	-	98	0	94	126	
339815	339942	-	12	13394289	13394399	-	123	2.60E-275	99	127	
361218	361340	-	12	13394289	13394399	-	81	6.30E-129	91	129	
361218	361340	-	12	13394550	13394671	-	77	0	90	129	
325857	325987	+	12	13394550	13394671	-	118	0	98	130	
359020	359150	-	12	13394550	13394671	-	90	0	92	130	
324119	324249	+	12	13394930	13395163	-	127	0	99	131	
338138	338272	-	12	13394930	13395163	-	130	0	99	134	
347785	347922	-	12	13395162	13395295	-	129	3.30E-279	99	137	
343912	344051	-	12	13395291	13395586	-	139	0	100	139	
347500	347642	-	12	13395586	13395698	-	138	1.90E-205	99	142	
342849	342992	-	12	13395699	13395810	-	139	1.40E-196	99	143	
342570	342722	+	12	13395811	13396023	-	140	0	98	152	
341767	341920	+	12	13396022	13396231	-	153	0	100	153	
360780	360936	+	12	13396031	13396173	-	152	2.60E-197	99	156	
359801	359956	-	12	13396031	13396173	-	129	2.50E-59	96	157	
363976	364141	+	12	13396031	13396173	-	161	2.90E-81	99	165	
331041	331231	+	12	13396420	13396533	-	186	0	99	190	
360142	360335	+	12	13396608	13396724	-	185	8.40E-248	99	193	
342862	343057	-	12	13396608	13396724	-	187	3.30E-279	99	195	
329900	330091	-	12	13396815	13397113	-	92	1.40E-70	87	196	
352476	352678	+	12	13398270	13398381	-	202	0	100	202	
342609	342813	+	12	13398384	13398501	-	204	5.90E-105	100	204	
330369	330583	-	12	13398384	13398501	-	210	3.30E-279	100	214	
361003	361219	-	12	13398564	13398969	-	172	6.30E-129	95	216	
331616	331835	-	12	13398564	13398969	-	199	1.90E-101	98	219	
361204	361424	+	12	13399046	13399318	-	220	0	100	220	
328375	328609	+	12	13399410	13399531	-	230	0	100	234	
344999	345237	-	12	13399532	13399640	-	238	4.70E-129	100	238	
359431	359687	-	12	13399734	13399877	-	206	0	95	258	
359431	359687	+	12	13399908	13400063	-	202	0	95	258	
361998	362259	-	12	13399908	13400063	-	253	0	99	261	
342798	343074	-	12	13400330	13400438	-	272	2.60E-275	100	276	
360693	360973	+	12	13400432	13400576	-	276	0	100	280	
327246	327660	+	12	13400432	13400576	-	410	0	100	414	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
341374	341790	-	12	13400576	13400699	-	374	0	97	422	
361093	361515	-	12	13400576	13400699	-	299	6.20E-163	93	423	
337644	338361	-	12	13400700	13400886	-	717	0	100	717	
360258	361219	-	12	13400976	13401262	-	837	0	97	961	
340349	341374	-	12	13401265	13401408	-	1021	0	100	1025	
349033	350118	+	12	13401408	13401585	-	1081	0	100	1085	
336511	337636	-	12	13401585	13401767	-	1105	0	100	1125	
359941	361178	-	12	13401767	13401905	-	1054	0	96	1238	
338399	340172	-	12	13401767	13401905	-	1769	0	100	1773	
313326	315416	+	12	13401915	13402016	-	2070	0	100	2090	
315425	317210	+	12	13402017	13402124	-	1766	0	100	1786	
283879	285342	+	12	13402126	13402269	-	1451	0	100	1463	
283291	283871	+	12	13402271	13402474	-	580	0	100	580	
289712	290227	+	12	13402271	13402474	-	445	2.80E-275	97	517	
294215	294665	-	12	13402563	13402707	-	446	7.50E-299	100	450	
317382	317745	+	12	13402706	13403123	-	363	0	100	363	
311938	312286	+	12	13403224	13403391	-	348	0	100	348	
299390	299720	+	12	13403395	13403567	-	303	0	98	331	
285632	285938	-	12	13403404	13403522	-	298	4.90E-280	99	306	
315127	315417	-	12	13403404	13403522	-	278	3.10E-273	99	290	
285341	285573	+	12	13403566	13403675	-	232	0	100	232	
291974	292204	-	12	13403826	13404398	-	230	0	100	230	
320548	320761	-	12	13404396	13404505	-	209	3.10E-273	100	213	
320491	320696	-	12	13404396	13404505	-	197	6.00E-114	99	205	
315992	316195	+	12	13404600	13404724	-	191	2.80E-99	99	203	
300659	300844	+	12	13404719	13404848	-	181	0	99	185	
289206	289384	-	12	13404719	13404848	-	170	1.20E-157	99	178	
317022	317194	+	12	13404719	13404848	-	156	9.70E-250	98	172	
317218	317388	+	12	13404851	13404951	-	170	0	100	170	
291594	291752	-	12	13404851	13404951	-	158	0	100	158	
302308	302465	-	12	13404950	13405060	-	149	6.50E-191	99	157	
284418	284568	+	12	13404950	13405060	-	130	0	97	150	
312435	312583	+	12	13404950	13405060	-	140	2.90E-240	99	148	
313754	313900	-	12	13404950	13405060	-	146	7.80E-199	100	146	
318229	318374	-	12	13405061	13405193	-	133	6.50E-191	98	145	
294583	294722	-	12	13405186	13405294	-	139	4.50E-90	100	139	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
294950	295089	+	12	13405577	13405795	-	131	5.30E-209	99	139	
283879	284016	+	12	13405577	13405795	-	125	0	98	137	
291111	291247	-	12	13406010	13406113	-	132	7.80E-199	99	136	
296857	296992	-	12	13406010	13406113	-	131	2.40E-194	99	135	
302810	302943	+	12	13406010	13406113	-	129	7.90E-215	99	133	
293185	293307	+	12	13406290	13406440	-	122	0	100	122	
301010	301131	+	12	13406290	13406440	-	121	2.50E-221	100	121	
300198	300315	-	12	13406290	13406440	-	113	0	99	117	
313324	313440	-	12	13406442	13406636	-	112	1.40E-205	99	116	
298148	298262	-	12	13406442	13406636	-	106	0	98	114	
306958	307070	+	12	13406637	13407050	-	112	9.70E-250	100	112	
283485	283595	+	12	13407050	13407324	-	110	0	100	110	
309054	309161	+	12	13407050	13407324	-	75	1.20E-67	93	107	
295616	295719	+	12	13407050	13407324	-	99	0	99	103	
285322	285422	-	12	13407325	13407558	-	92	4.90E-280	98	100	
242827	243081	-	12	13407559	13407740	-	242	1.20E-177	99	254	
242896	243000	-	12	13407559	13407740	-	104	0	100	104	
244648	244823	+	12	13407734	13407901	-	171	1.50E-272	99	175	
245413	245521	-	12	13408036	13408204	-	108	0	100	108	
247314	247618	+	12	13408204	13408315	-	284	5.40E-294	98	304	
247611	247867	+	12	13408481	13408656	-	256	5.40E-294	100	256	
248111	248375	-	12	13408787	13408931	-	256	3.30E-204	99	264	
249534	249654	-	12	13408787	13408931	-	120	1.00E-99	100	120	
249633	249753	+	12	13408930	13409108	-	120	0	100	120	
249633	249753	+	12	13409109	13409362	-	120	1.10E-64	100	120	
249633	249753	-	12	13409361	13409559	-	120	1.40E-98	100	120	
252205	252410	-	12	13409413	13409559	-	189	4.00E-96	98	205	
253165	253406	-	12	13409560	13409842	-	217	1.50E-116	98	241	
253423	253773	+	12	13409575	13409842	-	326	6.40E-180	98	350	
253649	253757	+	12	13409575	13409842	-	104	0	99	108	
253774	254036	+	12	13409842	13410038	-	242	5.50E-127	98	262	
254062	255483	-	12	13409842	13410038	-	1333	0	98	1421	
254627	255223	-	12	13410410	13410599	-	596	0	100	596	
254766	254946	+	12	13410410	13410599	-	176	1.50E-272	99	180	
255228	255483	-	12	13410740	13410897	-	255	0	100	255	
255491	255677	-	12	13411140	13411456	-	174	0	98	186	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
255491	256952	-	12	13411457	13411608	-	1445	0	100	1461	
255691	255965	-	12	13411607	13411808	-	258	0	99	274	
256952	257981	-	12	13411607	13411808	-	1025	0	100	1029	
257095	257389	+	12	13411898	13412011	-	247	3.80E-130	96	295	
258002	264139	-	12	13412230	13412390	-	6105	0	100	6137	
258477	258621	+	12	13412230	13412390	-	144	3.60E-233	100	144	
260911	261160	+	12	13412389	13412490	-	245	0	100	249	
261185	261582	+	12	13412389	13412490	-	365	0	98	397	
261434	261564	+	12	13412488	13412595	-	118	8.40E-237	98	130	
261438	261698	-	12	13412596	13412705	-	248	0	99	260	
262407	262980	-	12	13412596	13412705	-	537	0	98	573	
263028	263137	-	12	13412707	13412812	-	109	0	100	109	
264186	267680	-	12	13412811	13413013	-	3482	0	100	3494	
264524	264677	-	12	13412811	13413013	-	145	0	99	153	
265534	265648	-	12	13413171	13413339	-	114	1.20E-174	100	114	
267231	267345	-	12	13413171	13413339	-	106	0	98	114	
267688	268494	-	12	13413423	13413626	-	806	0	100	806	
267825	267946	+	12	13413627	13413761	-	117	1.10E-57	99	121	
268126	268244	+	12	13413627	13413761	-	118	1.30E-241	100	118	
268508	271851	-	12	13414167	13414272	-	3319	0	100	3343	
268961	269171	+	12	13417526	13417676	-	206	3.60E-233	100	210	
269019	269162	+	12	13417526	13417676	-	139	0	99	143	
269041	269152	-	12	13417676	13417917	-	111	0	100	111	
269694	269808	-	12	13417676	13417917	-	110	0	99	114	
270716	270825	+	12	13417952	13418144	-	109	1.20E-53	100	109	
271390	271627	-	12	13417952	13418144	-	229	0	99	237	
271562	271851	-	12	13418145	13418290	-	281	0	99	289	
271650	271769	-	12	13418291	13418395	-	104	2.70E-236	97	120	
271901	273654	-	12	14772191	14772330	-	1745	0	100	1753	
273283	273549	-	12	14981041	14981205	-	262	0	100	266	
273645	275407	-	12	16610892	16611501	-	1642	0	98	1762	
273645	277757	+	12	16610892	16611501	-	4084	0	100	4112	
273735	273845	-	12	16631522	16632131	-	107	1.10E-246	99	111	
274752	274902	-	12	16631522	16632131	-	150	1.00E-72	100	150	
274799	274944	+	12	17342067	17342327	-	137	4.80E-209	99	145	
274900	275028	-	12	17342067	17342327	-	120	0	98	128	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
275262	275407	-	12	17342327	17342676	-	133	0	98	145	
276966	277163	-	12	17342327	17342676	-	197	0	100	197	
277509	278495	-	12	17342677	17342902	-	948	0	99	988	
277758	280409	+	12	17342677	17342902	-	2639	0	100	2651	
279651	279755	-	12	17357534	17357660	-	92	0	97	104	
279653	279783	+	12	17357534	17357660	-	126	1.40E-202	99	130	
280422	281949	+	12	19160287	19160529	+	1515	0	100	1527	
280497	280613	+	12	19710616	19710772	+	112	1.50E-272	99	116	
280514	280789	+	12	19710616	19710772	+	255	0	98	275	
280698	280853	+	12	20419344	20419983	-	143	5.80E-98	98	155	
280792	280914	-	12	20419729	20419845	-	118	1.10E-246	99	122	
280935	281128	-	12	20419729	20419845	-	185	9.20E-263	99	193	
281163	281374	+	12	20419992	20420309	-	203	4.50E-251	99	211	
281505	281656	+	12	20420319	20421738	-	151	0	100	151	
281566	281709	-	12	20421747	20423045	-	139	0	99	143	
281566	281709	+	12	20423054	20423204	-	135	1.30E-307	99	143	
281588	281699	-	12	20423213	20426304	-	111	0	100	111	
281947	283297	+	12	20426421	20426857	-	1342	0	100	1350	
282176	282444	+	12	20426540	20426644	-	252	6.00E-230	99	268	
282371	282535	-	12	20426859	20427981	-	156	9.20E-263	99	164	
282868	282989	+	12	20427772	20427910	-	113	4.50E-251	98	121	
202351	203251	+	12	20427990	20428706	-	892	0	100	900	
202505	202946	+	12	20428744	20430515	-	283	0	100	287	
203012	203885	-	12	20430693	20431717	-	204	8.70E-105	99	212	
203140	204040	+	12	20430757	20431717	-	71	7.20E-47	91	111	
203260	205514	+	12	20431726	20432147	-	1345	0	100	1345	
204102	206214	-	12	20431726	20432147	-	353	0	99	361	
204127	206381	-	12	20436908	20437268	-	426	0	97	478	
204680	208378	+	12	20436908	20437268	-	1361	0	100	1369	
204734	207694	-	12	20437701	20438044	-	521	0	97	581	
205169	208103	-	12	20439143	20440227	-	104	1.50E-291	97	116	
205199	208894	-	12	20439143	20440227	-	748	0	97	848	
206042	209858	-	12	20440867	20441509	-	125	3.90E-289	100	125	
206227	210656	+	12	20441518	20441668	-	545	0	100	553	
206227	210656	-	12	20441677	20444768	-	489	0	97	553	
206789	213105	-	12	20444885	20448123	-	1762	0	98	1878	

Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
206789	212971	+	12	20445004	20445109	-	1720	0	100	1744	
212207	222209	-	12	20445603	20445745	-	138	0	99	146	
212838	223934	+	12	20447767	20447885	-	605	0	100	609	
213457	229731	+	12	20447767	20447885	-	5128	0	100	5168	
214267	228191	-	12	20448133	20449283	-	1880	0	98	2008	
214603	226965	-	12	20448487	20448606	-	107	0	99	111	
215620	229039	-	12	20449292	20453757	-	150	7.10E-71	100	150	
215667	229128	+	12	20453757	20454119	-	137	0	99	145	
215768	229313	-	12	20464840	20465009	-	120	3.50E-286	98	128	
216130	230054	-	12	20465018	20466803	-	133	0	98	145	
217834	233514	-	12	20466813	20468902	-	197	3.90E-289	100	197	
218377	235389	-	12	20468896	20469629	-	948	0	99	988	
218626	237552	+	12	20469644	20470994	-	2639	0	100	2651	
220519	238791	-	12	20470241	20470357	-	96	6.80E-188	98	104	
220521	238821	+	12	20471006	20477054	-	130	2.10E-292	100	130	
221290	241756	+	12	20477065	20480193	-	1515	0	100	1527	
221365	240495	+	12	20480194	20481250	-	112	0	99	116	
221382	240688	+	12	20481266	20483125	-	255	0	98	275	
221566	240936	+	12	20483135	20488352	-	143	4.90E-110	98	155	
221660	241091	-	12	20488371	20489059	-	118	0	99	122	
221803	241448	-	12	20489068	20490478	-	185	0	99	193	
222031	241922	+	12	20490492	20491314	-	203	0	99	211	
222373	242546	+	12	20491323	20492069	-	151	0	100	151	
222434	242660	-	12	20492083	20495368	-	139	3.80E-175	99	143	
222434	242660	+	12	20495365	20495545	-	135	0	99	143	
222456	242672	-	12	20495556	20495955	-	111	2.70E-302	100	111	
222815	243776	+	12	20495964	20496549	-	493	0	100	497	
223044	244020	+	12	20496558	20499991	-	267	0	99	283	
223277	244318	-	12	20498740	20499189	-	115	1.60E-206	100	115	
225662	249391	-	12	20500000	20501813	-	410	0	100	418	
226126	250062	+	12	20501822	20502345	-	145	1.20E-304	98	161	
236144	270233	+	12	20502354	20502875	-	292	0	100	296	
238948	275737	-	12	20502884	20507802	-	189	3.80E-175	99	193	
239006	275992	+	12	20507649	20507754	-	327	0	100	331	
239933	277624	+	12	20507811	20508756	-	81	1.10E-33	94	109	
241244	280258	-	12	20508798	20509296	-	67	3.20E-61	89	123	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
241905	281604	-	12	20510415	20514956	-	145	2.30E-71	100	145	
242435	282641	-	12	20514964	20515067	-	114	0	98	122	
242642	283112	-	12	20515083	20517500	-	175	0	99	179	
180935	181037	+	12	20515616	20517500	-	102	8.60E-296	100	102	
174956	175058	-	12	20517501	20521778	+	94	0	98	102	
173523	173627	-	12	20517501	20522159	+	96	0	98	104	
169819	169923	-	12	20521779	20522159	+	96	0	98	104	
181968	182074	-	12	20522171	20522838	+	98	0	98	106	
172587	172696	-	12	20522171	20522838	+	109	0	100	109	
187527	187636	+	12	20534155	20534777	+	105	0	99	109	
179576	179686	-	12	20534155	20534777	+	110	1.80E-246	100	110	
163096	163206	-	12	20534765	20535416	+	106	4.60E-137	99	110	
176842	176953	+	12	20534765	20535416	+	111	3.90E-51	100	111	
190081	190194	+	12	20535424	20537031	+	113	0	100	113	
176547	176660	-	12	20535424	20537466	+	113	0	100	113	
163540	163653	-	12	20537475	20538466	+	105	0	98	113	
175157	175275	-	12	20538486	20543240	+	94	7.00E-41	95	118	
175259	175379	-	12	20543250	20545025	+	112	0	98	120	
162821	162942	-	12	20544771	20544887	+	121	0	100	121	
185767	185891	-	12	20544771	20544887	+	124	0	100	124	
165551	165675	+	12	20545034	20545351	+	120	0	99	124	
163391	163517	+	12	20545361	20546780	+	126	6.40E-60	100	126	
179959	180085	+	12	20546789	20548087	+	122	5.30E-226	99	126	
186613	186739	-	12	20548096	20548246	+	122	0	99	126	
199192	199323	+	12	20548255	20551346	+	127	0	99	131	
183204	183336	+	12	20551460	20552829	+	132	4.50E-265	100	132	
177751	177884	-	12	20551582	20551687	+	113	0	96	133	
175747	175886	+	12	20552181	20552323	+	139	0	100	139	
170689	170831	+	12	20564908	20566784	+	138	2.60E-188	99	142	
167062	167204	-	12	20566428	20566546	+	138	0	99	142	
182974	183118	-	12	20566428	20566546	+	140	0	99	144	
187791	187935	-	12	20566797	20567947	+	136	0	99	144	
191699	191843	+	12	20567151	20567270	+	104	0	93	144	
191699	191843	+	12	20567956	20572964	+	104	0	93	144	
182567	182710	+	12	20573057	20578226	+	104	0	93	144	
191699	191843	-	12	20573394	20573537	+	104	0	93	144	





Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
161881	162028	-	12	20578250	20580026	+	147	5.90E-133	100	147	
178482	178633	+	12	20580035	20580878	+	151	0	100	151	
178482	178633	+	12	20580888	20581018	+	151	0	100	151	
178482	178633	-	12	20581133	20583243	+	151	0	100	151	
178482	178633	-	12	20583167	20583588	+	151	0	100	151	
181411	181563	-	12	20583597	20584065	+	152	0	100	152	
191112	191270	-	12	20584025	20584217	+	150	0	99	158	
162693	162855	-	12	20584066	20584965	+	154	0	99	162	
180544	180707	-	12	20584975	20586319	+	135	1.10E-63	96	163	
164324	164489	+	12	20586395	20587763	+	145	1.20E-73	97	165	
184828	184996	+	12	20587803	20588355	+	168	0	100	168	
185170	185338	+	12	20587803	20588355	+	161	0	99	169	
185497	185669	-	12	20587803	20588355	+	148	0	97	172	
184688	184861	+	12	20588364	20589105	+	165	0	99	173	
182002	182185	-	12	20588364	20590106	+	171	0	98	183	
168981	169178	-	12	20588364	20589105	+	189	0	99	197	
165811	166014	+	12	20590112	20590720	+	191	0	99	203	
185219	185427	-	12	20590731	20595897	+	204	6.80E-107	100	208	
169395	169645	-	12	20591787	20595897	+	238	0	99	250	
175487	175738	+	12	20591877	20592094	+	235	0	98	251	
182742	183002	+	12	20595890	20598540	+	248	2.20E-132	99	260	
184498	184771	-	12	20595890	20598540	+	265	0	99	273	
175420	175738	+	12	20596498	20598540	+	318	0	100	318	
175420	175738	-	12	20598554	20600080	+	318	0	100	318	
175420	175738	+	12	20598554	20600080	+	314	0	100	318	
187206	187550	-	12	20598554	20600080	+	312	0	98	344	
165049	165410	-	12	20599698	20599840	+	341	0	99	361	
162409	162790	-	12	20599748	20599925	+	369	0	99	381	
172914	173336	+	12	20599748	20599925	+	406	0	99	422	
201463	201877	+	12	20600088	20602017	+	352	0	96	424	
181849	182287	-	12	20600088	20601437	+	422	0	99	438	
201885	202351	+	12	20600088	20600584	+	434	0	98	470	
177831	178474	-	12	20601438	20602017	+	639	0	100	643	
174769	175412	-	12	20602026	20603488	+	631	0	100	643	
165156	165803	+	12	20602026	20603488	+	600	0	98	652	
165156	165803	+	12	20603472	20608703	+	600	0	98	652	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
198340	199184	+	12	20603472	20603703	+	844	0	100	844	
168874	169850	+	12	20612138	20613890	+	960	0	100	976	
167863	168855	+	12	20613941	20617282	+	992	0	100	992	
167863	168855	+	12	20616629	20616771	+	988	0	100	992	
185102	186253	+	12	20616629	20616771	+	1151	0	100	1151	
185102	186253	-	12	20616629	20616771	+	1151	0	100	1151	
185102	186253	+	12	20617297	20618102	+	1147	0	100	1151	
177175	178474	+	12	20618112	20621605	+	1299	0	100	1299	
177175	178474	+	12	20621653	20627789	+	1299	0	100	1299	
177175	178474	-	12	20627811	20628839	+	1299	0	100	1299	
181846	183216	+	12	20628840	20630300	+	1358	0	100	1370	
175795	177167	+	12	20630309	20630563	+	1368	0	100	1372	
175747	177167	-	12	20630560	20631155	+	1420	0	100	1420	
175747	177167	+	12	20631157	20632441	+	1420	0	100	1420	
173636	175412	+	12	20631157	20632441	+	1772	0	100	1776	
173636	175412	+	12	20632429	20633080	+	1768	0	100	1776	
196555	198332	+	12	20632429	20633080	+	1773	0	100	1777	
183211	185090	+	12	20633088	20634695	+	1867	0	100	1879	
165811	167855	+	12	20633088	20635130	+	2032	0	100	2044	
165811	167855	+	12	20635139	20636130	+	2028	0	100	2044	
199433	201538	+	12	20636150	20637125	+	2067	0	99	2111	
178641	181733	-	12	20637121	20640761	+	3088	0	100	3092	
178641	181733	+	12	20640771	20642546	+	3084	0	100	3092	
178641	181733	-	12	20642292	20642408	+	3084	0	100	3092	
178641	181733	+	12	20642292	20642408	+	3068	0	100	3092	
181849	185090	-	12	20642555	20642872	+	3221	0	100	3241	
181846	185090	+	12	20653666	20655037	+	3216	0	100	3244	
186261	189871	+	12	20655046	20656344	+	3598	0	100	3610	
169988	173627	+	12	20656353	20656503	+	3613	0	100	3641	
186261	190727	-	12	20656512	20659603	+	4446	0	100	4466	
168874	173627	+	12	20659717	20662958	+	4735	0	100	4755	
186261	191270	+	12	20659839	20659944	+	4993	0	100	5009	
191362	196532	+	12	20660438	20660580	+	5142	0	100	5170	
127924	128024	-	12	20662602	20662720	+	101	0	100	101	
150462	150566	-	12	20662969	20664119	+	105	0	100	105	
139018	139122	-	12	20663323	20663442	+	101	0	99	105	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
156696	156802	+	12	20664128	20667737	+	103	2.60E-226	99	107	
129751	129862	+	12	21311221	21311734	+	108	1.50E-270	99	112	
135434	135548	-	12	21430205	21430366	-	111	0	99	115	
154392	154515	-	12	21562122	21562515	-	120	0	99	124	
126027	126153	+	12	21562122	21562515	-	123	2.70E-61	99	127	
125101	125228	-	12	21562515	21562911	-	105	1.00E-56	95	129	
149563	149695	+	12	21562909	21563157	-	133	1.50E-270	100	133	
129053	129191	+	12	21567861	21568152	-	135	9.50E-116	99	139	
127951	128090	-	12	21568154	21568493	-	136	1.10E-148	99	140	
129682	129831	+	12	21922000	21922117	+	118	1.70E-86	95	150	
122432	122582	-	12	21922116	21922324	+	139	0	98	151	
150914	151072	-	12	21922116	21922324	+	144	0	98	160	
125866	126026	-	12	21922328	21922730	+	157	0	99	161	
125023	125189	+	12	21922328	21922730	+	131	1.30E-76	95	167	
126953	127121	+	12	22304641	22304790	-	145	0	96	169	
149802	149971	-	12	22304641	22304790	-	162	3.90E-82	99	170	
124119	124295	-	12	23531238	23531655	-	173	0	99	177	
121411	121607	-	12	23531238	23531655	-	177	4.00E-89	97	197	
151528	151734	-	12	23831962	23832741	-	199	0	99	207	
160769	160977	-	12	23991693	23991813	-	205	0	100	209	
122136	122371	-	12	24134387	24134643	+	208	0	97	236	
128749	128986	+	12	24562670	24562777	+	230	1.50E-270	99	238	
134455	134730	-	12	24562670	24562777	+	272	0	100	276	
157403	157711	-	12	24562776	24562922	+	301	0	99	309	
122680	123110	-	12	24562776	24562922	+	335	0	94	435	
123983	124453	-	12	24643620	24643749	+	463	0	100	471	
148950	149502	-	12	24643822	24644026	+	549	0	100	553	
148950	149502	+	12	24644027	24644167	+	493	0	97	553	
125816	126425	-	12	24644173	24644390	+	578	0	99	610	
125816	126425	-	12	24644734	24644884	+	578	0	99	610	
130374	130988	-	12	24644998	24645158	+	579	0	99	615	
121411	122138	-	12	24645393	24645497	+	647	0	97	735	
148199	148940	-	12	24645393	24645497	+	742	0	100	742	
148199	148940	+	12	24645497	24645651	+	714	0	99	742	
125901	126943	+	12	24645497	24645651	+	961	0	98	1045	
123254	124776	-	12	24645497	24645651	+	1399	0	98	1527	



Mitochondria								Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length	
139276	141160	+	12	26374197	26374333	-	1877	0	100	1885	
134617	139275	-	12	26374197	26374361	-	4643	0	100	4659	

Table A-3. Regions in the rice genome that align with the chloroplast and mitochondrial genomes

Name	Chromosome		Score	Stats		
	Start	End		E-value	%ID	Length
1	33866500	33866741	242	1.10E-133	100	242
1	14119934	14120962	942	0	98	1030
1	14120966	14121202	217	3.90E-121	98	237
1	14121475	14121627	137	1.80E-73	97	153
1	14122334	14122491	150	4.40E-78	99	158
1	19324506	19324656	131	6.80E-70	97	151
1	28741733	28741882	134	5.50E-70	97	150
1	28741733	28741879	131	3.70E-68	97	147
1	33825204	33826025	806	0	100	822
1	33860717	33861517	797	0	100	801
1	33866753	33868023	1267	0	100	1271
1	33880076	33880228	149	1.30E-80	99	153
1	33880934	33881590	657	0	100	657
1	33893370	33893493	124	9.60E-64	100	124
1	33899948	33900078	131	7.20E-68	100	131
1	34038380	34038526	143	3.50E-75	99	147
1	34698144	34698281	134	1.30E-68	99	138
1	39445747	39445944	194	2.10E-104	99	198
1	39448764	39449062	279	2.00E-154	98	299
1	42048687	42049037	351	4.90E-198	100	351
2	18610761	18610873	109	1.30E-53	99	113
2	14938974	14939221	197	3.40E-106	95	249
3	31759894	31760130	237	4.70E-133	100	237
3	4991086	4991368	259	1.00E-159	98	283
3	7557897	7558285	373	5.70E-214	99	389
3	10113399	10113509	103	4.60E-50	98	111
3	13624253	13624456	196	1.80E-105	99	204
3	13624253	13624456	196	1.80E-105	99	204



Name	Start	End	Score	E-value	%ID	Length
3	31758096	31758590	491	2.10E-284	100	495
3	31758602	31759890	1289	0	100	1289
4	251376	251476	101	7.80E-49	100	101
4	9117300	9117470	171	1.00E-93	100	171
4	9117478	9119123	1646	0	100	1646
4	9119130	9119333	204	2.20E-113	100	204
4	9131921	9132124	204	2.20E-113	100	204
4	9131924	9132127	204	2.20E-113	100	204
4	9132131	9133776	1646	0	100	1646
4	9133784	9133954	171	1.00E-93	100	171
4	9142065	9142886	806	0	100	822
4	18018159	18018476	278	8.70E-155	97	318
4	23435139	23435309	167	2.40E-91	99	171
4	23435317	23436961	1590	0	99	1646
4	23436968	23437171	188	7.40E-104	98	204
5	20888563	20889265	699	0	100	703
5	20889269	20889505	229	2.70E-128	99	237
5	20889775	20889926	137	1.80E-73	97	153
5	20890614	20891646	988	0	99	1036
6	1094075	1094424	326	1.80E-191	98	350
6	1094436	1095606	1136	0	99	1172
6	1106818	1106940	115	0	98	123
6	12743717	12744122	382	1.10E-217	98	410
6	23569084	23569663	568	0	99	580
6	23569664	23569926	243	0	98	263
6	23577394	23577544	143	4.80E-77	99	151
6	23585786	23586071	274	4.20E-155	99	286
6	23586206	23587732	1512	0	100	1528
6	23588439	23588591	141	7.50E-76	98	153
6	23588861	23589097	237	4.70E-133	100	237
6	23589101	23590389	1265	0	100	1289
6	23590401	23590895	491	2.10E-284	100	495



Name	Start	End	Score	E-value	%ID	Length
6	24553703	24554031	306	3.40E-171	98	330
6	28261114	28261254	129	1.50E-65	98	141
7	4475047	4475153	85	2.70E-39	95	109
7	14240881	14241084	204	2.20E-113	100	204
7	14241088	14242733	1646	0	100	1646
7	14242741	14242911	171	1.00E-93	100	171
8	9254292	9254495	204	2.20E-113	100	204
8	9254502	9256147	1642	0	100	1646
8	9256155	9256325	171	1.00E-93	100	171
8	9264391	9265211	798	0	99	822
8	9272685	9272835	151	8.20E-82	100	151
8	16395631	16395888	218	3.10E-293	96	258
8	16395985	16396295	249	3.10E-293	95	313
8	22193027	22193197	171	1.00E-93	100	171
8	22193205	22194850	1638	0	100	1646
8	25291999	25292132	107	1.50E-53	95	135
9	11944700	11945740	976	0	98	1044
9	11945748	11945918	167	2.40E-91	99	171
9	14504571	14504774	204	2.20E-113	100	204
9	14504781	14506426	1646	0	100	1646
9	14506434	14506604	171	1.00E-93	100	171
9	16352174	16352287	98	1.30E-48	96	114
10	7814271	7814463	193	1.20E-102	100	193
10	7814893	7815005	113	5.50E-56	100	113
10	10473642	10473845	204	2.20E-113	100	204
10	10473852	10475497	1630	0	100	1646
10	10475505	10475675	171	1.00E-93	100	171
10	10526579	10527073	491	2.10E-284	100	495
10	10527085	10528373	1277	0	100	1289
10	10528377	10528613	237	4.70E-133	100	237
10	10528883	10529035	141	7.50E-76	98	153



Name	Start	End	Score	E-value	%ID	Length
10	10529741	10531268	1512	0	100	1528
10	10531403	10531688	278	1.70E-157	99	286
10	10539947	10540097	151	8.20E-82	100	151
10	10547565	10548386	810	0	100	822
10	10556447	10556617	171	1.00E-93	100	171
10	10556625	10558270	1606	0	99	1646
10	10558277	10558480	196	1.30E-108	99	204
10	10558280	10558483	196	1.30E-108	99	204
10	11458019	11458127	90	7.20E-43	95	110
10	11458140	11458295	129	1.20E-65	96	157
10	18586124	18586260	111	7.90E-55	95	139
10	20132992	20133236	241	4.30E-133	100	245
10	21006220	21006390	159	1.40E-86	98	171
10	21006402	21007680	1192	0	98	1280
10	22441033	22442031	971	0	99	999
10	22442035	22442238	204	2.20E-113	100	204
11	3496168	3496272	97	9.90E-46	98	105
11	10835550	10835666	113	1.30E-56	99	117
11	18857084	18858119	812	0	95	1036
11	18900791	18901042	236	0	98	252
11	18901179	18901466	232	2.30E-129	95	288
12	4566706	4566867	150	2.10E-78	98	162
12	5609877	5610371	479	3.00E-277	99	495
12	5610383	5611671	1261	0	99	1289
12	5611675	5611911	229	2.70E-128	99	237
12	5612181	5612333	149	1.30E-80	99	153
12	5613041	5614568	1492	0	99	1528
12	5614703	5614870	160	3.70E-85	99	168
12	5640464	5640614	151	8.20E-82	100	151
12	5651219	5652040	790	0	99	822
12	8527031	8527540	471	1.30E-269	98	511
12	8527545	8528030	410	1.00E-234	96	494
12	8554381	8554509	101	4.50E-50	95	129





---

Chromosome		Stats				
Name	Start	End	Score	E-value	%ID	Length
12	11285335	11285829	471	1.70E-272	99	495
12	11285841	11286592	740	0	100	752
12	11410564	11410734	159	1.40E-86	98	171
12	11410742	11411788	971	0	98	1047
12	13350937	13351113	169	6.70E-113	99	177
12	13389650	13390120	448	9.00E-256	99	472
12	13392730	13392856	123	6.00E-62	99	127
12	13410973	13411133	157	3.20E-82	99	161
12	16609595	16610204	578	0	99	610
12	16630225	16630834	578	0	99	610

---

**Table B-1.** Rice tungro bacilliform virus (RTBV) alignments in the rice genome

RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
148	750	1	6201518	6202111	1.40E-10	57	641
239	713	1	22956721	22957201	1.90E-07	59	507
309	513	1	1984826	1985030	6.30E-06	59	217
328	637	1	758758	759064	2.30E-101	59	333
1089	2121	1	757732	758766	2.30E-101	61	1107
1254	1402	1	831282	831423	6.00E-70	60	153
1537	2295	1	5977827	5978578	2.70E-06	58	810
1810	2025	1	757371	757583	5.60E-72	62	234
1842	2567	1	2030981	2031701	6.90E-07	58	772
1868	2567	1	615944	616633	3.80E-07	59	743
1868	2603	1	33278771	33279494	1.70E-05	59	786
2335	2453	1	6222511	6222630	2.00E-09	63	127
2338	2449	1	757755	757859	8.10E-71	64	114
2354	3813	1	11561513	11562975	5.70E-77	56	1570
2734	4247	1	26530645	26532156	1.50E-06	57	1635
2943	3110	1	18311187	18311357	4.30E-06	61	179
3023	4265	1	13958472	13959711	7.00E-06	56	1336
3213	4020	1	6286912	6287711	1.40E-10	58	865
3243	4155	1	18337610	18338516	4.30E-06	58	976
3297	3539	1	30654233	30654473	1.80E-05	59	258
3383	4302	1	6286409	6287321	6.10E-06	57	989
3386	4268	1	13459451	13460325	5.70E-09	59	952
3462	4217	1	30663533	30664287	1.80E-05	58	814
3677	3945	1	33396727	33396992	6.00E-05	59	292
4354	5831	1	753717	755196	2.30E-101	62	1541
4354	5831	1	11533296	11534775	5.70E-77	62	1546
4492	5581	1	5191893	5192980	3.10E-53	62	1136
4988	5229	1	22957931	22958168	1.90E-07	61	258

RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
5106	5229	1	2031666	2031794	6.90E-07	65	134
5124	5229	1	13957529	13957631	7.00E-06	71	112
5589	5829	1	5192963	5193206	3.10E-53	61	249
32	622	2	30945109	30945691	5.10E-06	59	621
33	611	2	28437321	28437902	3.70E-05	59	617
36	622	2	33317652	33318239	1.30E-06	59	631
146	445	2	29145374	29145677	1.10E-05	58	321
151	862	2	296658	297382	1.80E-05	58	767
211	611	2	29328648	29329044	5.70E-06	62	426
221	628	2	24378428	24378829	6.50E-05	61	435
228	611	2	31610940	31611313	3.70E-05	62	408
259	622	2	9784310	9784666	7.50E-09	62	392
309	448	2	25476658	25476799	2.20E-08	63	149
328	496	2	9089130	9089291	1.10E-84	62	177
1553	2160	2	9090658	9091259	1.10E-84	61	650
1805	1954	2	25476674	25476825	5.80E-07	60	159
1810	2025	2	9091373	9091585	5.00E-71	62	235
1835	2094	2	9804630	9804889	4.10E-06	58	279
1835	2226	2	9804970	9805353	3.90E-09	59	424
1843	2503	2	8787412	8788072	2.20E-78	57	721
1894	2046	2	247009	247164	1.80E-05	62	166
2164	2561	2	9761096	9761499	7.50E-09	58	426
2338	2449	2	9091097	9091201	2.80E-69	63	114
3067	4037	2	25732159	25733121	1.10E-05	57	1040
3093	4087	2	33410029	33411015	6.50E-09	57	1066
3099	3717	2	33333849	33334463	1.30E-06	57	664
3227	4020	2	9784246	9785032	3.90E-09	58	843
3381	3824	2	25473046	25473488	7.90E-06	60	472
3639	5892	2	8789064	8791322	2.20E-78	60	2375

RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
3694	4253	2	25473284	25473843	2.20E-08	61	607
3695	4894	2	29125260	29126448	1.10E-05	57	1284
3696	3873	2	9103002	9103187	1.50E-08	61	197
3877	4139	2	9088774	9089037	7.50E-73	59	281
4354	5812	2	9094213	9095675	1.10E-84	63	1526
4564	4889	2	210471	210792	1.80E-05	59	351
4581	4816	2	30962151	30962389	5.10E-06	60	254
4618	4819	2	9760712	9760911	6.20E-07	59	214
5132	5243	2	9761348	9761462	5.00E-08	65	124
115	622	3	34597692	34598195	4.20E-08	59	538
155	246	3	11788408	11788504	5.50E-06	65	103
1843	2830	3	14547569	14548544	4.30E-05	57	1054
1877	2090	3	35663597	35663810	1.20E-06	62	229
1986	2566	3	13574386	13574964	4.40E-11	60	628
2102	2603	3	35697061	35697564	1.20E-06	58	546
3144	3950	3	11893773	11894575	5.50E-06	59	871
3518	4140	3	2625906	2626523	2.20E-05	59	667
3527	3916	3	34586722	34587122	4.20E-08	60	427
3669	4235	3	33515961	33516525	4.30E-06	60	611
3759	3908	3	23890397	23890546	3.00E-15	60	156
4395	4823	3	35698436	35698867	2.20E-06	58	457
4685	5520	3	23902815	23903648	3.00E-15	60	884
4962	5229	3	35698604	35698874	1.20E-06	61	289
5107	5426	3	13573997	13574316	4.40E-11	60	342
155	636	4	30151197	30151675	2.20E-05	61	520
219	430	4	3049602	3049805	2.10E-05	61	223
315	410	4	20110151	20110240	1.80E-05	70	101
315	627	4	28049374	28049691	3.10E-62	61	336

RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
544	991	4	18165592	18166039	2.40E-76	57	483
1089	2160	4	9551375	9552444	1.80E-108	61	1149
1096	2303	4	18165456	18166669	3.60E-104	59	1295
1137	1891	4	5696447	5697209	9.80E-09	57	831
1226	2160	4	20485795	20486718	1.40E-94	61	996
1810	2025	4	20486832	20487044	4.10E-68	61	235
1843	2503	4	18166632	18167292	2.40E-76	57	721
2338	2449	4	9551433	9551537	3.30E-77	63	114
2338	2449	4	20486557	20486660	2.20E-66	63	115
2342	2495	4	28557805	28557964	5.60E-06	61	168
2490	4260	4	28497921	28499689	5.60E-06	56	1912
2715	4100	4	16315671	16317056	1.10E-08	58	1493
2991	3241	4	20535833	20536088	7.00E-22	59	268
3051	3951	4	20130181	20131076	1.80E-05	58	969
3181	3334	4	5715241	5715397	8.20E-07	62	164
3408	3519	4	9468182	9468296	2.20E-24	61	119
3440	4062	4	472185	472807	1.50E-06	59	669
3639	4949	4	20488508	20489818	1.40E-94	59	1402
3639	5829	4	21529060	21531250	2.80E-72	60	2317
3639	5892	4	18168284	18170542	3.60E-104	60	2387
3641	5831	4	9547394	9549583	1.80E-108	61	2320
3788	3883	4	18173341	18173436	4.90E-21	66	101
3855	3976	4	20491519	20491638	3.60E-22	64	127
4027	4194	4	16333240	16333413	1.10E-08	60	181
4027	5829	4	28062269	28064060	3.10E-62	60	1907
4057	4195	4	18228452	18228591	4.90E-21	62	151
4650	5052	4	5692002	5692405	9.80E-09	63	431
4816	5354	4	3077892	3078446	2.10E-05	59	577
5001	5829	4	20489860	20490685	1.40E-94	63	862
5796	5937	4	21604058	21604205	2.80E-72	61	157

RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
32	502	5	19929379	19929849	8.60E-05	60	505
157	623	5	18499119	18499579	1.10E-05	60	499
216	893	5	29259527	29260204	8.30E-06	59	734
259	713	5	21285350	21285798	4.30E-05	60	480
291	385	5	18102344	18102444	8.40E-100	66	106
294	613	5	18057240	18057562	1.50E-101	59	346
315	490	5	23533930	23534105	3.00E-06	61	190
328	496	5	18133836	18133997	2.20E-100	63	177
328	496	5	18922184	18922345	2.10E-92	63	178
328	546	5	18143566	18143786	3.00E-101	62	237
328	635	5	18145225	18145533	2.30E-100	58	331
397	533	5	19044547	19044675	2.30E-90	63	145
764	988	5	18145244	18145473	3.30E-99	59	241
1094	1239	5	18145201	18145349	7.70E-70	60	155
1096	2121	5	18134141	18135168	1.50E-101	60	1095
1096	2160	5	18920979	18922040	2.10E-92	60	1139
1096	2168	5	18142410	18143481	3.00E-101	61	1150
1810	2025	5	18135317	18135529	6.50E-74	61	233
1810	2025	5	18142094	18142306	3.70E-72	62	234
1810	2025	5	18920653	18920865	2.30E-65	62	235
1887	2008	5	6694847	6694975	9.20E-06	64	134
2035	2203	5	19927884	19928051	8.60E-05	61	181
2105	2594	5	29320886	29321369	8.50E-05	59	523
2131	2671	5	6690689	6691233	9.20E-06	59	589
2338	2531	5	18142398	18142582	2.00E-70	60	203
3071	4108	5	23512535	23513566	3.00E-06	57	1115
3257	3361	5	18996224	18996330	5.10E-61	63	113
3346	4258	5	14064381	14065288	2.90E-06	58	987
3348	3939	5	19922490	19923074	8.60E-05	58	631

RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
3570	4268	5	20912552	20913251	4.10E-05	59	744
3639	4836	5	18139433	18140630	4.60E-48	59	1293
3639	5829	5	18136993	18139183	1.50E-101	60	2319
3639	5829	5	18917006	18919189	2.10E-92	60	2325
3708	3904	5	6661678	6661868	9.20E-06	61	205
3708	4253	5	11705942	11706483	1.30E-06	60	583
3932	4139	5	18143879	18144085	2.00E-70	60	220
3960	4096	5	23670892	23671037	1.10E-33	64	149
3994	4139	5	18145626	18145761	1.70E-70	62	151
4354	5831	5	18128727	18130206	3.00E-101	62	1548
4395	4819	5	11688525	11688947	6.40E-05	57	453
4402	5127	5	23633498	23634212	1.10E-33	64	763
4581	5493	5	20143828	20144730	1.50E-16	59	967
4815	5038	5	18159993	18160209	2.30E-26	61	235
4850	5106	5	19896973	19897230	8.60E-05	60	280
4962	5229	5	11688511	11688779	4.80E-06	60	289
4982	5259	5	29260148	29260423	8.30E-06	59	296
5007	5243	5	11689172	11689407	1.30E-06	61	258
5288	5418	5	29307394	29307524	8.30E-06	64	138
32	608	6	14893396	14893967	2.90E-06	60	618
211	883	6	25569540	25570205	5.30E-05	59	729
219	448	6	5110950	5111183	7.10E-71	62	252
328	636	6	1712440	1712741	1.10E-26	59	330
358	615	6	12627761	12628018	3.70E-12	59	275
544	728	6	12622451	12622633	2.00E-78	61	195
544	728	6	10574512	10574694	6.10E-32	61	196
1091	1332	6	25525728	25525976	5.30E-05	60	259
1096	1959	6	12622315	12623172	1.80E-106	61	922
1096	1959	6	10574376	10575234	1.70E-58	61	922

RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
1096	2160	6	1711374	1712436	1.10E-26	61	1141
1625	1722	6	12635020	12635120	1.90E-12	64	106
1843	2503	6	10575564	10576224	1.70E-58	57	718
3452	4095	6	6877109	6877737	1.10E-05	59	682
3564	4145	6	10199335	10199925	4.60E-05	60	634
3639	5892	6	12625156	12627414	1.80E-106	60	2386
3699	4143	6	5052000	5052439	7.10E-71	56	474
3734	3838	6	5089438	5089546	1.40E-70	64	113
3925	4258	6	1640638	1640970	1.10E-26	59	363
4354	5831	6	4978177	4979656	7.10E-71	62	1541
4397	5018	6	10577988	10578604	1.70E-58	65	649
4421	5829	6	1713974	1715380	2.80E-73	63	1475
4476	5415	6	25569260	25570190	2.90E-06	57	1004
4685	5520	6	12718770	12719603	4.30E-40	60	887
5389	5829	6	4974998	4975438	1.60E-12	63	463
7189	7350	6	5009767	5009930	1.60E-12	61	175
156	370	7	23166889	23167095	1.20E-07	60	225
237	587	7	6671852	6672196	4.50E-26	59	374
328	496	7	2781355	2781516	1.10E-105	63	176
328	496	7	6646983	6647144	3.80E-24	63	178
368	728	7	17896119	17896480	7.70E-80	58	384
1096	1959	7	17895579	17896437	1.90E-105	61	916
1096	2160	7	2781660	2782722	1.10E-105	60	1136
1096	2168	7	6645767	6646839	3.80E-24	60	1146
1097	1338	7	23158290	23158533	2.00E-08	60	260
1131	1231	7	17908536	17908641	4.00E-80	68	108
1635	1754	7	24556947	24557065	1.00E-07	63	131
1810	2025	7	2782836	2783048	6.80E-77	61	235
1843	2503	7	17894589	17895249	1.90E-105	57	719



RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
1846	2025	7	6652936	6653122	4.50E-26	61	202
2019	2321	7	6671770	6672072	3.40E-25	61	334
2338	2449	7	2782560	2782664	9.90E-76	63	114
2436	2564	7	17998630	17998755	2.00E-77	63	136
2438	2540	7	6501738	6501843	1.00E-22	64	112
3082	4082	7	25060531	25061532	9.80E-08	58	1086
3254	3572	7	6651736	6652043	4.50E-26	60	332
3315	4272	7	23198943	23199905	2.00E-08	58	1032
3315	4272	7	24560295	24561257	1.00E-07	58	1033
3476	3727	7	6504309	6504556	4.00E-22	57	265
3639	4844	7	6650275	6651472	4.50E-26	59	1286
3639	5892	7	17891339	17893597	1.90E-105	60	2380
3641	5831	7	2784514	2786702	1.10E-105	60	2314
3658	4248	7	17534172	17534762	8.40E-07	58	626
3692	4015	7	6521645	6521976	3.80E-24	60	356
4663	4870	7	2780861	2781073	4.40E-10	70	221
4842	5130	7	17606853	17607138	8.40E-07	61	314
4985	5229	7	23228684	23228929	2.00E-08	61	265
5143	5382	7	6543905	6544139	3.80E-22	59	258
187	493	8	1153826	1154123	1.50E-06	60	331
3519	4287	8	1154237	1154999	1.50E-06	58	822
3674	4139	8	1392447	1392905	1.80E-09	61	498
5035	5436	8	1393978	1394382	1.80E-09	59	425
2085	2568	8	4225542	4226025	6.30E-20	57	522
1096	2160	8	4245496	4246558	6.30E-20	60	1140
328	452	8	4246744	4246863	6.30E-20	65	131
4575	5831	8	4249016	4250264	9.10E-69	63	1296
4575	4909	8	4252558	4252889	1.20E-15	67	350
207	424	8	4274049	4274278	1.30E-66	60	243

RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
405	622	8	4295611	4295828	9.10E-69	64	232
1097	1694	8	4295628	4296235	1.40E-65	57	654
3649	4061	8	4314871	4315284	2.10E-66	58	445
2459	2608	8	4314997	4315138	3.30E-61	61	157
3674	3804	8	11133524	11133645	3.60E-24	63	135
3639	5892	8	11152811	11155069	1.70E-106	60	2377
1843	2503	8	11156061	11156721	3.10E-79	57	717
1091	2386	8	11156619	11157907	1.70E-106	58	1372
2084	2685	8	11157386	11157984	8.80E-81	58	650
334	728	8	11157590	11157985	3.10E-79	58	426
1096	2160	8	11159035	11160097	5.10E-110	60	1136
2338	2529	8	11159935	11160125	4.90E-79	60	202
1810	2025	8	11160211	11160423	1.30E-79	61	235
3639	5831	8	11161887	11164077	5.10E-110	61	2322
1096	2160	8	11167145	11168207	2.20E-109	60	1136
2338	2529	8	11168045	11168235	2.20E-75	60	202
1810	2025	8	11168321	11168533	3.10E-74	61	235
3639	5831	8	11169997	11172187	2.20E-109	61	2319
313	615	8	11172552	11172856	6.40E-113	58	320
1096	3367	8	11174169	11176443	1.80E-111	57	2434
1096	3367	8	11181414	11183688	6.40E-113	58	2437
328	855	8	11188275	11188793	1.10E-109	58	572
1096	2160	8	11188580	11189642	1.10E-106	61	1137
2338	2449	8	11189480	11189584	2.40E-104	63	114
1810	2025	8	11189756	11189968	7.90E-77	61	235
3641	4824	8	11191433	11192609	1.10E-49	58	1271
3641	5831	8	11196272	11198460	5.70E-110	60	2318
1810	2025	8	11199926	11200138	8.10E-78	62	234
3639	5831	8	11201328	11203518	6.40E-113	60	2319
328	615	8	11203885	11204180	1.10E-109	60	314

RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
1096	3367	8	11209154	11211428	7.90E-109	58	2438
1096	3367	8	11213335	11215609	5.40E-110	58	2436
1096	3367	8	11217516	11219790	7.90E-109	58	2436
1096	3367	8	11221697	11223971	2.10E-109	58	2436
1096	3367	8	11234234	11236507	5.70E-110	57	2443
4019	5831	8	11237480	11239291	5.40E-110	61	1911
2069	2255	8	11256622	11256807	6.20E-25	60	200
1096	1946	8	20043892	20044739	5.10E-23	61	909
1843	2503	8	20045088	20045748	1.80E-68	57	716
4447	5892	8	20047523	20048974	1.80E-68	62	1515
3167	3720	8	21073380	21073934	1.50E-24	57	597
5002	5178	8	21073830	21074017	6.00E-26	61	196
3847	4068	8	21102295	21102520	6.00E-26	60	238
3639	5829	8	21124354	21126543	6.30E-105	60	2332
92	432	8	21126363	21126699	2.30E-73	58	368
1810	2025	8	21128005	21128212	4.00E-76	62	229
1096	2121	8	21128366	21129393	6.30E-105	61	1097
322	624	8	21129407	21129709	6.30E-105	59	328
3378	3478	8	24738196	24738292	5.50E-23	65	105
3192	3324	8	24772188	24772318	5.50E-23	63	143
4354	5831	8	24785364	24786843	2.00E-101	63	1542
1810	2025	8	24789018	24789230	1.20E-72	62	234
1096	2160	8	24789344	24790406	2.00E-101	61	1140
1602	2449	8	24789402	24790245	3.50E-71	56	913
328	496	8	24790550	24790711	2.00E-101	63	178
3994	4139	8	24790804	24790939	4.70E-72	62	151
3902	5892	8	27066770	27068766	1.40E-78	61	2089
328	496	9	14502111	14502272	6.30E-21	62	177
328	496	9	16160807	16160968	1.10E-102	63	178

RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
328	855	9	14494561	14495079	4.60E-22	58	574
1096	2041	9	14502416	14503369	4.60E-22	60	1015
1096	2121	9	14494866	14495893	6.30E-23	60	1096
1096	2160	9	16161112	16162174	1.10E-102	60	1137
1230	2386	9	1114430	1115586	1.10E-104	59	1229
1833	2025	9	16162280	16162479	2.70E-73	61	213
1843	2503	9	1113872	1114532	1.50E-79	57	719
2338	2529	9	16162012	16162202	2.00E-72	60	205
2646	4098	9	9821201	9822654	4.30E-05	57	1569
2776	2910	9	16148009	16148149	3.90E-72	63	148
2847	2997	9	16081701	16081847	5.30E-73	62	160
3639	5892	9	1110621	1112880	1.10E-104	60	2376
3900	5143	9	17970610	17971846	1.40E-05	57	1333
3994	4139	9	16160579	16160714	5.30E-73	63	153
3994	4139	9	14501883	14502018	6.30E-23	62	153
4019	5831	9	16164297	16166108	1.10E-102	61	1910
4397	5196	9	14491914	14492699	4.00E-33	63	836
4691	5153	9	5048518	5048984	4.30E-05	60	494
74	171	10	22506606	22506704	6.70E-19	64	105
211	593	10	1977831	1978206	7.70E-09	62	408
261	713	10	14535789	14536234	7.90E-06	60	485
291	400	10	9601961	9602075	8.10E-22	63	121
328	496	10	9157705	9157866	1.10E-94	63	177
328	496	10	9692802	9692964	5.70E-23	62	177
358	615	10	14044790	14045047	3.40E-23	59	273
544	728	10	21610241	21610423	9.50E-80	61	195
735	849	10	14084694	14084817	2.10E-68	62	128
834	996	10	22472347	22472514	6.70E-19	61	178
1096	2160	10	9693107	9694168	5.70E-23	60	1140

RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
1106	1298	10	14121168	14121363	1.10E-68	62	211
1144	1256	10	1976967	1977091	7.70E-09	63	128
1230	1959	10	21609701	21610425	8.10E-107	62	768
1230	1959	10	14042108	14042832	3.40E-23	61	768
1230	2386	10	22388217	22389373	6.70E-19	59	1229
1351	2160	10	9155211	9156018	1.10E-94	61	866
1801	2603	10	5524121	5524919	1.70E-11	59	868
1810	2079	10	9154830	9155097	2.00E-71	61	292
1843	2503	10	21608711	21609371	8.10E-107	57	719
1843	2503	10	14041118	14041778	3.40E-23	57	719
1998	3515	10	19006380	19007899	4.20E-05	56	1628
2000	2572	10	1976140	1976713	7.70E-09	59	619
2038	2595	10	677303	677864	7.30E-06	59	602
3177	3336	10	14128039	14128202	1.10E-66	61	174
3246	3370	10	21536524	21536652	1.20E-22	62	137
3452	4099	10	5523972	5524615	8.40E-06	58	686
3639	5892	10	21605461	21607719	8.10E-107	60	2378
3644	3896	10	14504249	14504505	7.90E-06	63	273
3708	4140	10	1976259	1976693	2.60E-08	60	470
3744	4139	10	9157959	9158353	1.40E-72	59	429
3901	4036	10	14498476	14498612	7.90E-06	61	148
4019	5808	10	9151251	9153042	1.10E-94	61	1893
4394	5229	10	635883	636712	7.30E-06	56	898
4397	5892	10	14045394	14046886	1.10E-68	63	1560
4499	4932	10	14047012	14047434	1.30E-23	66	446
4598	5153	10	6236045	6236600	4.30E-05	58	592
5152	5303	10	5496770	5496911	1.70E-11	65	159
3	787	11	26839202	26839983	3.80E-07	58	844
14	636	11	4450337	4450960	8.20E-06	59	674

RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
149	640	11	1954440	1954939	5.00E-08	61	537
259	622	11	324000	324357	2.20E-05	62	387
267	477	11	9542918	9543127	8.30E-74	59	223
291	565	11	1082170	1082444	2.80E-05	63	293
307	646	11	25621398	25621742	1.50E-08	61	371
321	647	11	22293263	22293589	2.60E-05	60	350
332	480	11	1455334	1455480	5.70E-05	62	156
1096	2306	11	25644826	25646044	7.80E-26	59	1298
1122	1228	11	19332995	19333094	2.00E-05	65	114
1230	2386	11	9603055	9604211	1.70E-24	59	1230
1407	1581	11	5035110	5035275	1.70E-61	61	184
1625	2594	11	22288636	22289598	2.60E-05	57	1037
1810	2025	11	9592313	9592525	8.30E-74	62	235
1854	2295	11	25621298	25621743	5.10E-08	59	475
3124	4037	11	27889790	27890696	1.70E-05	58	979
3207	3717	11	25728814	25729327	7.80E-26	58	554
3246	4255	11	27771435	27772440	9.60E-05	57	1089
3392	4140	11	25623213	25623954	1.50E-08	58	797
3408	4037	11	1450285	1450900	5.70E-05	59	668
3641	5892	11	9593991	9596247	8.30E-74	60	2381
3666	4156	11	4452192	4452683	8.20E-06	58	529
3847	4100	11	1091192	1091440	2.80E-05	60	270
4327	4437	11	22185305	22185412	2.60E-05	64	114
4338	5829	11	11632973	11634468	3.40E-63	61	1563
4415	5828	11	5065846	5067254	1.70E-61	62	1478
4598	5154	11	14764845	14765401	9.80E-08	60	598
4749	5069	11	27727126	27727451	9.60E-05	59	352
4850	5493	11	19323016	19323657	2.00E-05	58	683
5034	5166	11	25626507	25626637	1.50E-08	61	136
5606	5758	11	27866157	27866302	1.70E-05	61	161

RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
7019	7116	11	11579301	11579397	3.40E-63	66	105
21	535	12	18995810	18996334	2.20E-05	59	549
34	601	12	5491369	5491934	1.50E-06	60	610
42	165	12	25754278	25754401	2.80E-99	65	135
94	777	12	1872204	1872878	6.20E-07	59	733
202	359	12	4576181	4576344	5.20E-77	60	169
328	452	12	22965076	22965195	1.30E-22	65	132
544	728	12	25812807	25812989	9.80E-74	61	195
544	728	12	17863728	17863910	3.70E-42	61	195
1096	2121	12	22963863	22964890	1.30E-22	61	1101
1230	1687	12	17863726	17864186	2.40E-59	62	478
1230	2388	12	25812805	25813964	2.80E-99	59	1236
1477	1584	12	19449318	19449425	4.10E-18	63	117
1814	2566	12	22216478	22217227	9.80E-05	58	809
1843	2503	12	25813860	25814520	9.80E-74	57	721
1868	2571	12	17560718	17561426	9.80E-08	59	768
1901	2054	12	17901476	17901629	3.30E-10	62	171
1911	2043	12	4571307	4571436	5.20E-77	61	138
1972	2347	12	17925099	17925471	1.30E-11	58	396
2533	2685	12	22902354	22902503	1.30E-22	61	162
3246	4184	12	518117	519062	1.50E-06	58	1018
3291	3481	12	4504668	4504854	1.80E-78	61	200
3440	4299	12	22277665	22278519	7.50E-07	58	930
3651	5892	12	4594578	4596829	1.80E-78	60	2367
3668	3796	12	22190743	22190868	9.80E-05	63	132
4021	5829	12	25117107	25118916	7.10E-74	61	1913
4397	4816	12	25811456	25811867	7.40E-11	64	440
4397	5829	12	26510705	26512129	5.40E-69	63	1492
4397	5892	12	25816386	25817878	2.80E-99	62	1557



RTBV		Rice			Stats		
Start	End	Chr.	Start	End	E-value	% Identity	Length
4581	5493	12	19479869	19480773	1.10E-18	59	970
4852	5892	12	17864171	17865217	2.40E-59	62	1086



**Table B-2.** RNA viral homologies in the rice nuclear genome

Chr	Rice		Length	Stats		Viral homology
	Start	End		E-Value	% Identity	
1	2469482	2469808	354	2.30E-05	62	RGSV (NC_002328)
1	11464345	11464669	343	6.00E-06	62	RGSV (NC_002328)
1	25700098	25700455	387	6.00E-06	62	RGSV (NC_002328)
1	26530760	26531130	395	9.00E-05	61	RGSV (NC_002328)
1	28679419	28679805	413	6.40E-05	61	RBSDV (NC_003735)
1	32150912	32151379	504	2.70E-06	60	RBSDV (NC_003735)
1	38531674	38531963	311	4.60E-05	62	RGSV (NC_002328)
2	12524933	12525247	325	3.00E-06	62	RGSV (NC_002328)
2	12525835	12526173	360	7.80E-07	62	RGSV (NC_002328)
2	18870105	18870616	550	7.60E-05	61	OSE (NC_007647)
2	21461054	21461542	521	8.40E-05	59	OSE (NC_007647)
3	18200914	18201437	554	1.30E-07	59	RGSV (NC_002325)
3	25929928	25930244	337	2.30E-05	62	RGSV (NC_002328)
3	28899384	28899595	234	2.40E-05	63	RBSDV (NC_003735)
3	28918522	28918803	295	2.40E-05	60	RBSDV (NC_003735)
4	16316068	16317049	1057	5.40E-05	58	OSE (NC_007647)
4	26234062	26234407	377	1.20E-05	62	RGSV (NC_002328)
5	5735049	5735249	215	4.90E-09	65	RGSV (NC_002328)
5	5751371	5751545	184	4.90E-09	65	RGSV (NC_002328)
5	11692147	11692544	420	9.00E-05	60	RGSV (NC_002328)
6	6644000	6645675	1800	1.20E-05	56	RGSV (NC_002325)
6	12923333	12923600	284	2.00E-05	63	RSV (NC_003753)
6	14893394	14893780	428	9.00E-05	61	RGSV (NC_002328)
6	15878801	15879103	318	3.00E-06	63	RGSV (NC_002328)
6	29536650	29537081	464	8.40E-07	59	RBSDV (NC_003735)
6	29591331	29591794	500	8.40E-07	60	RBSDV (NC_003735)
7	18304362	18304614	268	9.00E-05	63	RGSV (NC_002328)
8	209536	209876	368	9.00E-05	61	RGSV (NC_002328)
8	1154316	1154673	386	6.00E-06	62	RGSV (NC_002328)



Chr	Rice		Length	Stats		Viral homology
	Start	End		E-Value	% Identity	
8	1390999	1391317	342	4.60E-05	62	RGSV (NC_002328)
8	1394984	1395358	399	4.00E-07	61	RGSV (NC_002328)
8	3548352	3548795	470	2.00E-07	60	RGSV (NC_002328)
8	8511475	8511561	92	1.70E-06	67	ORE (NC_007649)
8	8518853	8519786	1005	1.70E-06	58	ORE (NC_007649)
8	8602435	8602649	232	1.70E-06	63	ORE (NC_007649)
8	20497318	20497613	312	9.00E-05	63	RGSV (NC_002328)
8	23533493	23534077	626	5.60E-06	59	OSE (NC_007647)
8	23557095	23557877	837	5.60E-06	57	OSE (NC_007647)
9	9821130	9821963	904	1.20E-05	58	OSE (NC_007647)
9	10150703	10151069	393	6.00E-06	62	RGSV (NC_002328)
10	3468456	3468616	167	9.00E-05	69	RGSV (NC_002328)
10	10227825	10228578	808	1.10E-06	58	OSE (NC_007647)
10	15117266	15117621	379	9.00E-05	61	RSGV (NC_002328)
10	15516599	15516924	347	3.00E-06	62	RSGV (NC_002328)
11	322800	323380	623	2.40E-05	57	OSE (NC_007647)
11	323956	324388	465	2.40E-05	59	OSE (NC_007647)
11	20706041	20706329	297	7.70E-05	61	RSV (NC_003753)
11	24769846	24770400	588	9.00E-05	59	RGSV (NC_002328)
11	25902206	25902548	370	4.60E-05	62	RGSV (NC_002328)
11	27924348	27924813	498	3.80E-05	59	OSE (NC_007647)
12	4357548	4357776	237	2.00E-05	64	RSV (NC_003753)

OSE - Oryza sativa endornavirus; ORE - Oryza rufipogon endornavirus; RSV - Rice stripe virus; RBSDV - Rice black streaked dwarf virus; RGSV-Rice grassy stunt virus

**Table C-1.** *Bacillus cereus* homologies in the rice nuclear genome

Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
33591	33645	-	1	33566481	33566607	+	67	7.5E-47	88.19	127
13745	13871	-	1	33566481	33566607	+	67	7.5E-47	88.19	127
149705	149831	-	1	33566481	33566607	+	67	7.5E-47	88.19	127
283809	283935	-	1	33566481	33566607	+	67	2.9E-46	88.19	127
304861	304987	-	1	33566481	33566607	+	67	2.9E-46	88.19	127
318069	318195	-	1	33566481	33566607	+	67	2.9E-46	88.19	127
327170	327296	-	1	33566481	33566607	+	67	2.9E-46	88.19	127
334988	335186	-	1	33566481	33566607	+	67	2.9E-46	88.19	127
609141	609267	-	1	33566481	33566607	+	67	2.9E-46	88.19	127
822348	822474	-	1	33566481	33566607	+	67	2.9E-46	88.19	127
4651388	4651514	+	1	33566481	33566607	+	67	2.9E-46	88.19	127
33372	33486	-	1	33566640	33566753	+	44	7.5E-47	84.48	116
13598	13712	-	1	33566640	33566753	+	44	7.5E-47	84.48	116
149559	149672	-	1	33566640	33566753	+	44	7.5E-47	84.48	116
283663	283776	-	1	33566640	33566753	+	44	2.9E-46	84.48	116
304715	304828	-	1	33566640	33566753	+	44	2.9E-46	84.48	116
317923	318036	-	1	33566640	33566753	+	44	2.9E-46	84.48	116
327024	327137	-	1	33566640	33566753	+	44	2.9E-46	84.48	116
334842	335027	-	1	33566640	33566753	+	44	2.9E-46	84.48	116
608995	609108	-	1	33566640	33566753	+	44	2.9E-46	84.48	116
822202	822315	-	1	33566640	33566753	+	44	2.9E-46	84.48	116
4651547	4651660	+	1	33566640	33566753	+	44	2.9E-46	84.48	116
13576	13951	+	1	33567484	33567858	+	210	1.2E-114	88.74	382
86467	86842	+	1	33567484	33567858	+	210	1.2E-114	88.74	382
149537	149910	+	1	33567484	33567858	+	210	1.2E-114	88.74	382
283641	284015	+	1	33567484	33567858	+	210	1.2E-114	88.74	382
304693	305067	+	1	33567484	33567858	+	210	1.2E-114	88.74	382
317901	318275	+	1	33567484	33567858	+	210	1.2E-114	88.74	382
327002	327376	+	1	33567484	33567858	+	210	1.2E-114	88.74	382
334820	335266	+	1	33567484	33567858	+	210	1.2E-114	88.74	382
608973	609347	+	1	33567484	33567858	+	210	1.2E-114	88.74	382
822180	822554	+	1	33567484	33567858	+	210	1.2E-114	88.74	382
4651308	4651682	-	1	33567484	33567858	+	210	1.2E-114	88.74	382
13617	13871	+	1	33567524	33567778	+	158	5E-84	90.31	258
33391	33645	+	1	33567524	33567778	+	158	5E-84	90.31	258
86507	86693	+	1	33567524	33567709	+	101	3.5E-50	88.36	189
149577	149831	+	1	33567524	33567778	+	158	5E-84	90.31	258
304733	304918	+	1	33567524	33567709	+	101	3.5E-50	88.36	189
317941	318126	+	1	33567524	33567709	+	101	3.5E-50	88.36	189
327042	327227	+	1	33567524	33567709	+	101	3.5E-50	88.36	189
334860	335045	+	1	33567524	33567709	+	101	3.5E-50	88.36	189



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
609013	609133	+	1	33567524	33567644	+	66	1.8E-29	88.52	122
822220	822405	+	1	33567524	33567709	+	101	3.5E-50	88.36	189
4651457	4651642	-	1	33567524	33567709	+	101	3.5E-50	88.36	189
10630	10728	-	2	807711	807809	+	64	1.4E-28	91	100
30404	30502	-	2	807711	807809	+	64	1.4E-28	91	100
83748	83846	-	2	807711	807809	+	64	1.4E-28	91	100
146816	146914	-	2	807711	807809	+	64	1.4E-28	91	100
280922	281019	-	2	807711	807809	+	64	1.4E-28	91	100
10197	10315	-	2	808124	808242	+	79	2.1E-37	91.6	119
29971	30089	-	2	808124	808242	+	79	2.1E-37	91.6	119
83315	83433	-	2	808124	808242	+	79	2.1E-37	91.6	119
146383	146501	-	2	808124	808242	+	79	2.1E-37	91.6	119
280488	280606	-	2	808124	808242	+	79	2.1E-37	91.6	119
301538	301656	-	2	808124	808242	+	79	2.1E-37	91.6	119
314749	314867	-	2	808124	808242	+	79	2.1E-37	91.6	119
323848	323966	-	2	808124	808242	+	79	2.1E-37	91.6	119
331666	331784	-	2	808124	808242	+	79	2.1E-37	91.6	119
819027	819145	-	2	808124	808242	+	79	2.1E-37	91.6	119
4654717	4654835	+	2	808124	808242	+	79	2.1E-37	91.6	119
12879	12990	+	2	814495	814605	+	57	3.7E-24	87.18	117
32654	32764	+	2	814495	814605	+	56	1.5E-23	87.07	116
85770	85881	+	2	814495	814605	+	56	1.5E-23	87.07	116
148839	148949	+	2	814495	814605	+	57	3.7E-24	87.18	117
148853	148950	+	2	814495	814605	+	57	3.7E-24	87.18	117
282944	283053	+	2	814495	814604	+	56	1.5E-23	87.07	116
303996	304105	+	2	814495	814604	+	56	1.5E-23	87.07	116
317204	317313	+	2	814495	814604	+	56	1.5E-23	87.07	116
326305	326414	+	2	814495	814604	+	56	1.5E-23	87.07	116
334123	334232	+	2	814495	814604	+	56	1.5E-23	87.07	116
608276	608386	+	2	814495	814605	+	57	3.7E-24	87.18	117
821483	821593	+	2	814495	814605	+	57	3.7E-24	87.18	117
4652269	4652379	-	2	814495	814605	+	57	3.7E-24	87.18	117
148966	149072	+	2	814624	814729	+	62	3.1E-27	89.62	106
32916	33025	+	2	814764	814872	+	85	1.7E-42	94.5	109
86033	86142	+	2	814764	814872	+	85	1.7E-42	94.5	109
86033	86142	+	2	814764	814872	+	85	6.3E-42	94.5	109
149103	149211	+	2	814764	814872	+	85	1.7E-42	94.5	109
149121	149229	+	2	814764	814872	+	85	1.7E-42	94.5	109
304259	304367	+	2	814764	814872	+	85	1.7E-42	94.5	109
317467	317575	+	2	814764	814872	+	85	1.7E-42	94.5	109
326368	326476	+	2	814764	814872	+	85	1.7E-42	94.5	109
334386	334494	+	2	814764	814872	+	85	1.7E-42	94.5	109



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
608403	608511	+	2	814764	814872	+	85	1.7E-42	94.5	109
608539	608647	+	2	814764	814872	+	85	1.7E-42	94.5	109
821746	821854	+	2	814764	814872	+	85	1.7E-42	94.5	109
4652008	4652116	-	2	814764	814872	+	85	1.7E-42	94.5	109
13576	13951	+	2	815200	815574	+	179	4.3E-96	86.68	383
86467	86842	+	2	815200	815574	+	179	4.3E-96	86.68	383
149537	149910	+	2	815200	815574	+	179	4.3E-96	86.68	383
283641	284015	+	2	815200	815574	+	179	4.3E-96	86.68	383
304693	305067	+	2	815200	815574	+	179	4.3E-96	86.68	383
317901	318275	+	2	815200	815574	+	179	4.3E-96	86.68	383
327002	327376	+	2	815200	815574	+	179	4.3E-96	86.68	383
334820	335266	+	2	815200	815574	+	179	4.3E-96	86.68	383
608973	609347	+	2	815200	815574	+	179	4.3E-96	86.68	383
822180	822554	+	2	815200	815574	+	179	4.3E-96	86.68	383
4651308	4651682	-	2	815200	815574	+	179	4.3E-96	86.68	383
13618	13871	+	2	815241	815494	+	133	5.2E-69	87.94	257
33392	33645	+	2	815241	815494	+	133	5.2E-69	87.94	257
86509	86663	+	2	815241	815395	+	76	3.9E-35	87.18	156
149578	149831	+	2	815241	815494	+	133	5.2E-69	87.94	257
304734	304888	+	2	815241	815395	+	76	3.9E-35	87.18	156
317942	318096	+	2	815241	815395	+	76	3.9E-35	87.18	156
327043	327197	+	2	815241	815395	+	76	3.9E-35	87.18	156
334861	335015	+	2	815241	815395	+	76	3.9E-35	87.18	156
609014	609133	+	2	815241	815360	+	53	1.3E-21	85.95	121
822221	822375	+	2	815241	815395	+	76	3.9E-35	87.18	156
4651487	4651641	-	2	815241	815395	+	76	3.9E-35	87.18	156
10197	10315	+	2	14191648	14191766	+	87	2.5E-42	93.28	119
10630	10728	+	2	14192081	14192179	+	68	4.9E-31	92	100
29971	30089	+	2	14191648	14191766	+	87	2.5E-42	93.28	119
30404	30502	+	2	14192081	14192179	+	68	4.9E-31	92	100
83315	83433	+	2	14191648	14191766	+	87	2.5E-42	93.28	119
83748	83846	+	2	14192081	14192179	+	68	4.9E-31	92	100
146383	146501	+	2	14191648	14191766	+	87	2.5E-42	93.28	119
146816	146914	+	2	14192081	14192179	+	68	4.9E-31	92	100
280488	280606	+	2	14191648	14191766	+	87	2.5E-42	93.28	119
280922	281019	+	2	14192081	14192179	+	68	4.9E-31	92	100
301538	301656	+	2	14191648	14191766	+	87	2.5E-42	93.28	119
314749	314867	+	2	14191648	14191766	+	87	2.5E-42	93.28	119
323848	323966	+	2	14191648	14191766	+	87	2.5E-42	93.28	119
331666	331784	+	2	14191648	14191766	+	87	2.5E-42	93.28	119
819027	819145	+	2	14191648	14191766	+	87	2.5E-42	93.28	119
4654717	4654835	-	2	14191648	14191766	+	87	2.5E-42	93.28	119
4347101	4347870	-	3	1817627	1818395	+	769	0	100	769



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
10192	10315	-	3	23618356	23618478	-	73	9.5E-34	89.6	125
29966	30089	-	3	23618356	23618478	-	73	9.5E-34	89.6	125
83310	83433	-	3	23618356	23618478	-	73	9.5E-34	89.6	125
146379	146501	-	3	23618356	23618478	-	73	9.5E-34	89.6	125
280484	280606	-	3	23618356	23618478	-	73	9.5E-34	89.6	125
301534	301656	-	3	23618356	23618478	-	73	9.5E-34	89.6	125
314745	314867	-	3	23618356	23618478	-	73	9.5E-34	89.6	125
323844	323966	-	3	23618356	23618478	-	73	9.5E-34	89.6	125
331662	331784	-	3	23618356	23618478	-	73	9.5E-34	89.6	125
819023	819145	-	3	23618356	23618478	-	73	9.5E-34	89.6	125
4654717	4654839	+	3	23618356	23618478	-	73	9.5E-34	89.6	125
148966	149072	-	3	27564940	27565045	+	66	1.1E-29	90.57	106
12880	12989	-	3	27565065	27565174	+	50	6.5E-20	85.96	114
32653	32763	-	3	27565065	27565174	+	51	1.6E-20	86.09	115
85770	85880	-	3	27565065	27565174	+	50	6.5E-20	85.96	114
148839	148948	-	3	27565065	27565174	+	51	1.6E-20	86.09	115
148853	148949	-	3	27565065	27565174	+	51	1.6E-20	86.09	115
282944	283053	-	3	27565065	27565174	+	51	1.6E-20	86.09	115
303996	304105	-	3	27565065	27565174	+	51	1.6E-20	86.09	115
317204	317313	-	3	27565065	27565174	+	51	1.6E-20	86.09	115
326305	326414	-	3	27565065	27565174	+	51	1.6E-20	86.09	115
334123	334232	-	3	27565065	27565174	+	51	1.6E-20	86.09	115
608276	608385	-	3	27565065	27565174	+	51	1.6E-20	86.09	115
821483	821592	-	3	27565065	27565174	+	51	1.6E-20	86.09	115
4652270	4652379	+	3	27565065	27565174	+	51	1.6E-20	86.09	115
12879	12990	-	3	31754647	31754757	-	53	1E-21	86.32	117
32653	32764	-	3	31754647	31754757	-	53	1E-21	86.32	117
85770	85881	-	3	31754647	31754757	-	52	4E-21	86.21	116
148839	148949	-	3	31754647	31754757	-	53	1E-21	86.32	117
148853	148950	-	3	31754647	31754757	-	53	1E-21	86.32	117
282944	283053	-	3	31754647	31754756	-	52	4E-21	86.21	116
303996	304105	-	3	31754647	31754756	-	52	4E-21	86.21	116
317204	317313	-	3	31754647	31754756	-	52	4E-21	86.21	116
326305	326414	-	3	31754647	31754756	-	52	4E-21	86.21	116
334123	334232	-	3	31754647	31754756	-	52	4E-21	86.21	116
608276	608386	-	3	31754647	31754757	-	53	1E-21	86.32	117
821483	821593	-	3	31754647	31754757	-	53	1E-21	86.32	117
4652269	4652379	+	3	31754647	31754757	-	53	1E-21	86.32	117
148966	149072	-	3	31754776	31754881	-	70	3.7E-32	91.51	106
32916	33025	-	3	31754916	31755024	-	93	1.4E-47	96.33	109
86033	86142	-	3	31754916	31755024	-	93	1.4E-47	96.33	109



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
149103	149211	-	3	31754916	31755024	-	93	1.4E-47	96.33	109
149121	149229	-	3	31754916	31755024	-	93	1.4E-47	96.33	109
304259	304367	-	3	31754916	31755024	-	93	1.4E-47	96.33	109
317467	317575	-	3	31754916	31755024	-	93	1.4E-47	96.33	109
326368	326476	-	3	31754916	31755024	-	93	1.4E-47	96.33	109
334386	334494	-	3	31754916	31755024	-	93	1.4E-47	96.33	109
608403	608511	-	3	31754916	31755024	-	93	1.4E-47	96.33	109
608539	608647	-	3	31754916	31755024	-	93	1.4E-47	96.33	109
821746	821854	-	3	31754916	31755024	-	93	1.4E-47	96.33	109
4652008	4652116	+	3	31754916	31755024	-	93	1.4E-47	96.33	109
13576	13951	-	3	31755352	31755726	-	210	1.2E-114	88.74	382
86467	86842	-	3	31755352	31755726	-	210	1.2E-114	88.74	382
149537	149910	-	3	31755352	31755726	-	210	1.2E-114	88.74	382
283641	284015	-	3	31755352	31755726	-	210	1.2E-114	88.74	382
304693	305067	-	3	31755352	31755726	-	210	1.2E-114	88.74	382
317901	318275	-	3	31755352	31755726	-	210	1.2E-114	88.74	382
327002	327376	-	3	31755352	31755726	-	210	1.2E-114	88.74	382
334820	335266	-	3	31755352	31755726	-	210	1.2E-114	88.74	382
608973	609347	-	3	31755352	31755726	-	210	1.2E-114	88.74	382
822180	822554	-	3	31755352	31755726	-	210	1.2E-114	88.74	382
4651308	4651682	+	3	31755352	31755726	-	210	1.2E-114	88.74	382
13617	13871	-	3	31755392	31755646	-	158	5E-84	90.31	258
13617	13802	-	3	31755392	31755577	-	101	3.5E-50	88.36	189
33391	33645	-	3	31755392	31755646	-	158	5E-84	90.31	258
33391	33576	-	3	31755392	31755577	-	101	3.5E-50	88.36	189
86507	86693	-	3	31755392	31755577	-	101	3.5E-50	88.36	189
149576	149761	-	3	31755392	31755577	-	101	3.5E-50	88.36	189
149577	149831	-	3	31755392	31755646	-	158	5E-84	90.31	258
304733	304918	-	3	31755392	31755577	-	101	3.5E-50	88.36	189
317941	318126	-	3	31755392	31755577	-	101	3.5E-50	88.36	189
327042	327227	-	3	31755392	31755577	-	101	3.5E-50	88.36	189
334860	335045	-	3	31755392	31755577	-	101	3.5E-50	88.36	189
609013	609133	-	3	31755392	31755512	-	66	1.8E-29	88.52	122
822220	822405	-	3	31755392	31755577	-	101	3.5E-50	88.36	189
4651457	4651642	+	3	31755392	31755577	-	101	3.5E-50	88.36	189
13576	13951	-	3	31756484	31756858	-	210	1.2E-114	88.74	382
13617	13871	-	3	31756524	31756778	-	158	5E-84	90.31	258
33391	33645	-	3	31756524	31756778	-	158	5E-84	90.31	258
86467	86842	-	3	31756484	31756858	-	210	1.2E-114	88.74	382
149537	149910	-	3	31756484	31756858	-	210	1.2E-114	88.74	382
149577	149831	-	3	31756524	31756778	-	158	5E-84	90.31	258
283641	284015	-	3	31756484	31756858	-	210	1.2E-114	88.74	382
304693	305067	-	3	31756484	31756858	-	210	1.2E-114	88.74	382
317901	318275	-	3	31756484	31756858	-	210	1.2E-114	88.74	382



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
327002	327376	-	3	31756484	31756858	-	210	1.2E-114	88.74	382
334820	335266	-	3	31756484	31756858	-	210	1.2E-114	88.74	382
608973	609347	-	3	31756484	31756858	-	210	1.2E-114	88.74	382
822180	822554	-	3	31756484	31756858	-	210	1.2E-114	88.74	382
4651308	4651682	+	3	31756484	31756858	-	210	1.2E-114	88.74	382
10197	10315	+	4	8907662	8907780	+	91	8.2E-45	94.12	119
29971	30089	+	4	8907662	8907780	+	91	8.2E-45	94.12	119
83315	83433	+	4	8907662	8907780	+	91	8.2E-45	94.12	119
146383	146501	+	4	8907662	8907780	+	91	8.2E-45	94.12	119
280488	280606	+	4	8907662	8907780	+	91	8.2E-45	94.12	119
301538	301656	+	4	8907662	8907780	+	91	8.2E-45	94.12	119
314749	314867	+	4	8907662	8907780	+	91	8.2E-45	94.12	119
323848	323966	+	4	8907662	8907780	+	91	8.2E-45	94.12	119
331666	331784	+	4	8907662	8907780	+	91	8.2E-45	94.12	119
819027	819145	+	4	8907662	8907780	+	91	8.2E-45	94.12	119
4654717	4654835	-	4	8907662	8907780	+	91	8.2E-45	94.12	119
10630	10728	+	4	8908095	8908193	+	68	4.9E-31	92	100
30404	30502	+	4	8908095	8908193	+	68	4.9E-31	92	100
83748	83846	+	4	8908095	8908193	+	68	4.9E-31	92	100
146816	146914	+	4	8908095	8908193	+	68	4.9E-31	92	100
280922	281019	+	4	8908095	8908193	+	68	4.9E-31	92	100
12879	12990	+	4	8912461	8912571	+	53	1E-21	86.32	117
32653	32764	+	4	8912461	8912571	+	53	1E-21	86.32	117
85770	85881	+	4	8912461	8912571	+	52	4E-21	86.21	116
148839	148949	+	4	8912461	8912571	+	53	1E-21	86.32	117
148853	148950	+	4	8912461	8912571	+	53	1E-21	86.32	117
282944	283053	+	4	8912461	8912570	+	52	4E-21	86.21	116
303996	304105	+	4	8912461	8912570	+	52	4E-21	86.21	116
317204	317313	+	4	8912461	8912570	+	52	4E-21	86.21	116
326305	326414	+	4	8912461	8912570	+	52	4E-21	86.21	116
334123	334232	+	4	8912461	8912570	+	52	4E-21	86.21	116
608276	608386	+	4	8912461	8912571	+	53	1E-21	86.32	117
821483	821593	+	4	8912461	8912571	+	53	1E-21	86.32	117
4652269	4652379	-	4	8912461	8912571	+	53	1E-21	86.32	117
32916	33025	+	4	8912730	8912838	+	93	1.5E-47	96.33	109
86033	86142	+	4	8912730	8912838	+	93	1.5E-47	96.33	109
86033	86142	+	4	8912730	8912838	+	93	5.3E-47	96.33	109
148966	149072	+	4	8912590	8912695	+	70	3.7E-32	91.51	106
149103	149211	+	4	8912730	8912838	+	93	1.5E-47	96.33	109
149121	149229	+	4	8912730	8912838	+	93	1.5E-47	96.33	109
304259	304367	+	4	8912730	8912838	+	93	1.5E-47	96.33	109
317467	317575	+	4	8912730	8912838	+	93	1.5E-47	96.33	109
326368	326476	+	4	8912730	8912838	+	93	1.5E-47	96.33	109





Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
334386	334494	+	4	8912730	8912838	+	93	1.5E-47	96.33	109
608403	608511	+	4	8912730	8912838	+	93	1.5E-47	96.33	109
608539	608647	+	4	8912730	8912838	+	93	1.5E-47	96.33	109
821746	821854	+	4	8912730	8912838	+	93	1.5E-47	96.33	109
4652008	4652116	-	4	8912730	8912838	+	93	1.5E-47	96.33	109
13576	13951	+	4	8913166	8913540	+	210	1.2E-114	88.74	382
13617	13802	+	4	8913206	8913391	+	101	3.5E-50	88.36	189
33391	33645	+	4	8913206	8913460	+	158	5E-84	90.31	258
86467	86842	+	4	8913166	8913540	+	210	1.2E-114	88.74	382
149537	149910	+	4	8913166	8913540	+	210	1.2E-114	88.74	382
283641	284015	+	4	8913166	8913540	+	210	1.2E-114	88.74	382
304693	305067	+	4	8913166	8913540	+	210	1.2E-114	88.74	382
317901	318275	+	4	8913166	8913540	+	210	1.2E-114	88.74	382
327002	327376	+	4	8913166	8913540	+	210	1.2E-114	88.74	382
334820	335266	+	4	8913166	8913540	+	210	1.2E-114	88.74	382
608973	609347	+	4	8913166	8913540	+	210	1.2E-114	88.74	382
822180	822554	+	4	8913166	8913540	+	210	1.2E-114	88.74	382
4651308	4651682	-	4	8913166	8913540	+	210	1.2E-114	88.74	382
10197	10315	+	4	8984065	8984183	+	91	8.2E-45	94.12	119
29971	30089	+	4	8984065	8984183	+	91	8.2E-45	94.12	119
83315	83433	+	4	8984065	8984183	+	91	8.2E-45	94.12	119
146383	146501	+	4	8984065	8984183	+	91	8.2E-45	94.12	119
280488	280606	+	4	8984065	8984183	+	91	8.2E-45	94.12	119
301538	301656	+	4	8984065	8984183	+	91	8.2E-45	94.12	119
314749	314867	+	4	8984065	8984183	+	91	8.2E-45	94.12	119
323848	323966	+	4	8984065	8984183	+	91	8.2E-45	94.12	119
331666	331784	+	4	8984065	8984183	+	91	8.2E-45	94.12	119
819027	819145	+	4	8984065	8984183	+	91	8.2E-45	94.12	119
4654717	4654835	-	4	8984065	8984183	+	91	8.2E-45	94.12	119
10630	10728	+	4	8984498	8984596	+	68	4.9E-31	92	100
30404	30502	+	4	8984498	8984596	+	68	4.9E-31	92	100
83748	83846	+	4	8984498	8984596	+	68	4.9E-31	92	100
146816	146914	+	4	8984498	8984596	+	68	4.9E-31	92	100
280922	281019	+	4	8984498	8984596	+	68	4.9E-31	92	100
10197	10315	+	4	9002493	9002611	+	91	8.2E-45	94.12	119
29971	30089	+	4	9002493	9002611	+	91	8.2E-45	94.12	119
83315	83433	+	4	9002493	9002611	+	91	8.2E-45	94.12	119
146383	146501	+	4	9002493	9002611	+	91	8.2E-45	94.12	119
280488	280606	+	4	9002493	9002611	+	91	8.2E-45	94.12	119
301538	301656	+	4	9002493	9002611	+	91	8.2E-45	94.12	119
314749	314867	+	4	9002493	9002611	+	91	8.2E-45	94.12	119
323848	323966	+	4	9002493	9002611	+	91	8.2E-45	94.12	119
331666	331784	+	4	9002493	9002611	+	91	8.2E-45	94.12	119



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
819027	819145	+	4	9002493	9002611	+	91	8.2E-45	94.12	119
4654717	4654835	-	4	9002493	9002611	+	91	8.2E-45	94.12	119
10630	10728	+	4	9002926	9003024	+	64	1.4E-28	91	100
30404	30502	+	4	9002926	9003024	+	64	1.4E-28	91	100
83748	83846	+	4	9002926	9003024	+	64	1.4E-28	91	100
146816	146914	+	4	9002926	9003024	+	64	1.4E-28	91	100
280922	281019	+	4	9002926	9003024	+	64	1.4E-28	91	100
12879	12990	+	4	9007294	9007404	+	53	1E-21	86.32	117
32653	32764	+	4	9007294	9007404	+	53	1E-21	86.32	117
85770	85881	+	4	9007294	9007404	+	52	4E-21	86.21	116
148839	148949	+	4	9007294	9007404	+	53	1E-21	86.32	117
148853	148950	+	4	9007294	9007404	+	53	1E-21	86.32	117
282944	283053	+	4	9007294	9007403	+	52	4E-21	86.21	116
303996	304105	+	4	9007294	9007403	+	52	4E-21	86.21	116
317204	317313	+	4	9007294	9007403	+	52	4E-21	86.21	116
326305	326414	+	4	9007294	9007403	+	52	4E-21	86.21	116
334123	334232	+	4	9007294	9007403	+	52	4E-21	86.21	116
608276	608386	+	4	9007294	9007404	+	53	1E-21	86.32	117
821483	821593	+	4	9007294	9007404	+	53	1E-21	86.32	117
4652269	4652379	-	4	9007294	9007404	+	53	1E-21	86.32	117
148966	149072	+	4	9007423	9007528	+	70	3.7E-32	91.51	106
32916	33025	+	4	9007563	9007671	+	93	1.5E-47	96.33	109
86033	86142	+	4	9007563	9007671	+	93	1.5E-47	96.33	109
149103	149211	+	4	9007563	9007671	+	93	1.5E-47	96.33	109
304259	304367	+	4	9007563	9007671	+	93	1.5E-47	96.33	109
317467	317575	+	4	9007563	9007671	+	93	1.5E-47	96.33	109
326368	326476	+	4	9007563	9007671	+	93	1.5E-47	96.33	109
334386	334494	+	4	9007563	9007671	+	93	1.5E-47	96.33	109
608403	608511	+	4	9007563	9007671	+	93	1.5E-47	96.33	109
608539	608647	+	4	9007563	9007671	+	93	1.5E-47	96.33	109
821746	821854	+	4	9007563	9007671	+	93	1.5E-47	96.33	109
4652008	4652116	-	4	9007563	9007671	+	93	1.5E-47	96.33	109
13576	13951	+	4	9007999	9008373	+	206	3.1E-112	88.48	382
86467	86842	+	4	9007999	9008373	+	206	3.1E-112	88.48	382
149537	149910	+	4	9007999	9008373	+	206	3.1E-112	88.48	382
283641	284015	+	4	9007999	9008373	+	206	3.1E-112	88.48	382
304693	305067	+	4	9007999	9008373	+	206	3.1E-112	88.48	382
317901	318275	+	4	9007999	9008373	+	206	3.1E-112	88.48	382
327002	327376	+	4	9007999	9008373	+	206	3.1E-112	88.48	382
334820	335266	+	4	9007999	9008373	+	206	3.1E-112	88.48	382
608973	609347	+	4	9007999	9008373	+	206	3.1E-112	88.48	382
822180	822554	+	4	9007999	9008373	+	206	3.1E-112	88.48	382



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
4651308	4651682	-	4	9007999	9008373	+	206	3.1E-112	88.48	382
13617	13871	+	4	9008039	9008293	+	154	1.3E-81	89.92	258
33391	33645	+	4	9008039	9008293	+	154	1.3E-81	89.92	258
86507	86693	+	4	9008039	9008224	+	97	9.1E-48	87.83	189
149577	149831	+	4	9008039	9008293	+	154	1.3E-81	89.92	258
304733	304918	+	4	9008039	9008224	+	97	9.1E-48	87.83	189
317941	318126	+	4	9008039	9008224	+	97	9.1E-48	87.83	189
327042	327227	+	4	9008039	9008224	+	97	9.1E-48	87.83	189
334860	335045	+	4	9008039	9008224	+	97	9.1E-48	87.83	189
609013	609133	+	4	9008039	9008159	+	62	4.8E-27	87.7	122
822220	822405	+	4	9008039	9008224	+	97	9.1E-48	87.83	189
4651457	4651642	-	4	9008039	9008224	+	97	9.1E-48	87.83	189
10197	10315	+	4	9043093	9043211	+	91	8.2E-45	94.12	119
29971	30089	+	4	9043093	9043211	+	91	8.2E-45	94.12	119
83315	83433	+	4	9043093	9043211	+	91	8.2E-45	94.12	119
146383	146501	+	4	9043093	9043211	+	91	8.2E-45	94.12	119
280488	280606	+	4	9043093	9043211	+	91	8.2E-45	94.12	119
301538	301656	+	4	9043093	9043211	+	91	8.2E-45	94.12	119
314749	314867	+	4	9043093	9043211	+	91	8.2E-45	94.12	119
323848	323966	+	4	9043093	9043211	+	91	8.2E-45	94.12	119
331666	331784	+	4	9043093	9043211	+	91	8.2E-45	94.12	119
819027	819145	+	4	9043093	9043211	+	91	8.2E-45	94.12	119
4654717	4654835	-	4	9043093	9043211	+	91	8.2E-45	94.12	119
10630	10728	+	4	9043526	9043624	+	68	4.9E-31	92	100
30404	30502	+	4	9043526	9043624	+	68	4.9E-31	92	100
83748	83846	+	4	9043526	9043624	+	68	4.9E-31	92	100
146816	146914	+	4	9043526	9043624	+	68	4.9E-31	92	100
280922	281019	+	4	9043526	9043624	+	68	4.9E-31	92	100
12879	12990	+	4	9047894	9048004	+	53	1E-21	86.32	117
32653	32764	+	4	9047894	9048004	+	53	1E-21	86.32	117
85770	85881	+	4	9047894	9048004	+	52	4E-21	86.21	116
148839	148949	+	4	9047894	9048004	+	53	1E-21	86.32	117
148853	148950	+	4	9047894	9048004	+	53	1E-21	86.32	117
282944	283053	+	4	9047894	9048003	+	52	4E-21	86.21	116
303996	304105	+	4	9047894	9048003	+	52	4E-21	86.21	116
317204	317313	+	4	9047894	9048003	+	52	4E-21	86.21	116
326305	326414	+	4	9047894	9048003	+	52	4E-21	86.21	116
334123	334232	+	4	9047894	9048003	+	52	4E-21	86.21	116
608276	608386	+	4	9047894	9048004	+	53	1E-21	86.32	117
821483	821593	+	4	9047894	9048004	+	53	1E-21	86.32	117
4652269	4652379	-	4	9047894	9048004	+	53	1E-21	86.32	117
32916	33025	+	4	9048163	9048271	+	93	1.5E-47	96.33	109



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
86033	86142	+	4	9048163	9048271	+	93	1.5E-47	96.33	109
148966	149072	+	4	9048023	9048128	+	70	3.7E-32	91.51	106
149103	149211	+	4	9048163	9048271	+	93	1.5E-47	96.33	109
149121	149229	+	4	9048163	9048271	+	93	1.5E-47	96.33	109
304259	304367	+	4	9048163	9048271	+	93	1.5E-47	96.33	109
317467	317575	+	4	9048163	9048271	+	93	1.5E-47	96.33	109
326368	326476	+	4	9048163	9048271	+	93	1.5E-47	96.33	109
334386	334494	+	4	9048163	9048271	+	93	1.5E-47	96.33	109
608403	608511	+	4	9048163	9048271	+	93	1.5E-47	96.33	109
608539	608647	+	4	9048163	9048271	+	93	1.5E-47	96.33	109
821746	821854	+	4	9048163	9048271	+	93	1.5E-47	96.33	109
4652008	4652116	-	4	9048163	9048271	+	93	1.5E-47	96.33	109
13576	13951	+	4	9048599	9048973	+	210	1.2E-114	88.74	382
86467	86842	+	4	9048599	9048973	+	210	1.2E-114	88.74	382
149537	149910	+	4	9048599	9048973	+	210	1.2E-114	88.74	382
283641	284015	+	4	9048599	9048973	+	210	1.2E-114	88.74	382
304693	305067	+	4	9048599	9048973	+	210	1.2E-114	88.74	382
317901	318275	+	4	9048599	9048973	+	210	1.2E-114	88.74	382
327002	327376	+	4	9048599	9048973	+	210	1.2E-114	88.74	382
334820	335266	+	4	9048599	9048973	+	210	1.2E-114	88.74	382
608973	609347	+	4	9048599	9048973	+	210	1.2E-114	88.74	382
822180	822554	+	4	9048599	9048973	+	210	1.2E-114	88.74	382
4651308	4651682	-	4	9048599	9048973	+	210	1.2E-114	88.74	382
13617	13871	+	4	9048639	9048893	+	158	5E-84	90.31	258
33391	33645	+	4	9048639	9048893	+	158	5E-84	90.31	258
86507	86693	+	4	9048639	9048824	+	101	3.5E-50	88.36	189
149577	149831	+	4	9048639	9048893	+	158	5E-84	90.31	258
304733	304918	+	4	9048639	9048824	+	101	3.5E-50	88.36	189
317941	318126	+	4	9048639	9048824	+	101	3.5E-50	88.36	189
327042	327227	+	4	9048639	9048824	+	101	3.5E-50	88.36	189
334860	335045	+	4	9048639	9048824	+	101	3.5E-50	88.36	189
609013	609133	+	4	9048639	9048759	+	66	1.8E-29	88.52	122
822220	822405	+	4	9048639	9048824	+	101	3.5E-50	88.36	189
4651457	4651642	-	4	9048639	9048824	+	101	3.5E-50	88.36	189
10200	10315	-	4	23268276	23268391	+	81	1.2E-38	92.31	117
29974	30089	-	4	23268276	23268391	+	81	1.2E-38	92.31	117
83318	83433	-	4	23268276	23268391	+	81	1.2E-38	92.31	117
146386	146501	-	4	23268276	23268391	+	81	1.2E-38	92.31	117
280491	280606	-	4	23268276	23268391	+	81	1.2E-38	92.31	117
301541	301656	-	4	23268276	23268391	+	81	1.2E-38	92.31	117
314752	314867	-	4	23268276	23268391	+	81	1.2E-38	92.31	117
323851	323966	-	4	23268276	23268391	+	81	1.2E-38	92.31	117
331669	331784	-	4	23268276	23268391	+	81	1.2E-38	92.31	117
819030	819145	-	4	23268276	23268391	+	81	1.2E-38	92.31	117



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
4654717	4654832	+	4	23268276	23268391	+	81	1.2E-38	92.31	117
32916	33025	-	4	23281924	23282032	+	93	1.3E-47	96.33	109
86033	86142	-	4	23281924	23282032	+	93	1.3E-47	96.33	109
149103	149211	-	4	23281924	23282032	+	93	1.3E-47	96.33	109
149121	149229	-	4	23281924	23282032	+	93	1.3E-47	96.33	109
304259	304367	-	4	23281924	23282032	+	93	1.3E-47	96.33	109
317467	317575	-	4	23281924	23282032	+	93	1.3E-47	96.33	109
326368	326476	-	4	23281924	23282032	+	93	1.3E-47	96.33	109
334386	334494	-	4	23281924	23282032	+	93	1.3E-47	96.33	109
608403	608511	-	4	23281924	23282032	+	93	1.3E-47	96.33	109
608539	608647	-	4	23281924	23282032	+	93	1.3E-47	96.33	109
821746	821854	-	4	23281924	23282032	+	93	1.3E-47	96.33	109
4652008	4652116	+	4	23281924	23282032	+	93	1.3E-47	96.33	109
148966	149072	-	4	23282067	23282172	+	66	1.1E-29	90.57	106
10192	10300	-	4	32486318	32486425	+	74	2.3E-34	91.82	110
29966	30074	-	4	32486318	32486425	+	74	2.3E-34	91.82	110
83310	83418	-	4	32486318	32486425	+	74	2.3E-34	91.82	110
146379	146486	-	4	32486318	32486425	+	74	2.3E-34	91.82	110
280484	280591	-	4	32486318	32486425	+	74	2.3E-34	91.82	110
301534	301641	-	4	32486318	32486425	+	74	2.3E-34	91.82	110
314745	314852	-	4	32486318	32486425	+	74	2.3E-34	91.82	110
323844	323956	-	4	32486318	32486425	+	74	2.3E-34	91.82	110
331662	331769	-	4	32486318	32486425	+	74	2.3E-34	91.82	110
819023	819130	-	4	32486318	32486425	+	74	2.3E-34	91.82	110
4654732	4654839	+	4	32486318	32486425	+	74	2.3E-34	91.82	110
10197	10315	-	5	884190	884308	+	91	8.2E-45	94.12	119
29971	30089	-	5	884190	884308	+	91	8.2E-45	94.12	119
83315	83433	-	5	884190	884308	+	91	8.2E-45	94.12	119
146383	146501	-	5	884190	884308	+	91	8.2E-45	94.12	119
280488	280606	-	5	884190	884308	+	91	8.2E-45	94.12	119
301538	301656	-	5	884190	884308	+	91	8.2E-45	94.12	119
314749	314867	-	5	884190	884308	+	91	8.2E-45	94.12	119
323848	323966	-	5	884190	884308	+	91	8.2E-45	94.12	119
331666	331784	-	5	884190	884308	+	91	8.2E-45	94.12	119
819027	819145	-	5	884190	884308	+	91	8.2E-45	94.12	119
4654717	4654835	+	5	884190	884308	+	91	8.2E-45	94.12	119
10630	10728	-	5	12784826	12784924	+	68	4.9E-31	92	100
30404	30502	-	5	12784826	12784924	+	68	4.9E-31	92	100
83748	83846	-	5	12784826	12784924	+	68	4.9E-31	92	100
146816	146914	-	5	12784826	12784924	+	68	4.9E-31	92	100
280922	281019	-	5	12784826	12784924	+	68	4.9E-31	92	100



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
10197	10315	-	5	12785239	12785357	+	91	8.2E-45	94.12	119
29971	30089	-	5	12785239	12785357	+	91	8.2E-45	94.12	119
83315	83433	-	5	12785239	12785357	+	91	8.2E-45	94.12	119
146383	146501	-	5	12785239	12785357	+	91	8.2E-45	94.12	119
280488	280606	-	5	12785239	12785357	+	91	8.2E-45	94.12	119
301538	301656	-	5	12785239	12785357	+	91	8.2E-45	94.12	119
314749	314867	-	5	12785239	12785357	+	91	8.2E-45	94.12	119
323848	323966	-	5	12785239	12785357	+	91	8.2E-45	94.12	119
331666	331784	-	5	12785239	12785357	+	91	8.2E-45	94.12	119
819027	819145	-	5	12785239	12785357	+	91	8.2E-45	94.12	119
4654717	4654835	+	5	12785239	12785357	+	91	8.2E-45	94.12	119
13617	13802	-	6	16740597	16740782	+	65	1.6E-28	83.6	189
33391	33576	-	6	16740597	16740782	+	65	1.6E-28	83.6	189
86507	86693	-	6	16740597	16740782	+	65	1.6E-28	83.6	189
149576	149761	-	6	16740597	16740782	+	65	1.6E-28	83.6	189
283681	283866	-	6	16740597	16740782	+	65	5.5E-28	83.6	189
304733	304918	-	6	16740597	16740782	+	65	1.6E-28	83.6	189
317941	318126	-	6	16740597	16740782	+	65	1.6E-28	83.6	189
327042	327227	-	6	16740597	16740782	+	65	1.6E-28	83.6	189
334860	335045	-	6	16740597	16740782	+	65	1.6E-28	83.6	189
609013	609198	-	6	16740597	16740782	+	65	5.5E-28	83.6	189
822220	822405	-	6	16740597	16740782	+	65	1.6E-28	83.6	189
4651457	4651642	+	6	16740597	16740782	+	65	1.6E-28	83.6	189
10630	10728	-	6	18949473	18949571	+	60	4.1E-26	90	100
30404	30502	-	6	18949473	18949571	+	60	4.1E-26	90	100
83748	83846	-	6	18949473	18949571	+	60	4.1E-26	90	100
146816	146914	-	6	18949473	18949571	+	60	4.1E-26	90	100
280922	281019	-	6	18949473	18949571	+	60	4.1E-26	90	100
10630	10728	-	7	14230992	14231090	+	68	4.9E-31	92	100
30404	30502	-	7	14230992	14231090	+	68	4.9E-31	92	100
83748	83846	-	7	14230992	14231090	+	68	4.9E-31	92	100
146816	146914	-	7	14230992	14231090	+	68	4.9E-31	92	100
280922	281019	-	7	14230992	14231090	+	68	4.9E-31	92	100
10197	10315	-	7	14231405	14231523	+	91	8.2E-45	94.12	119
29971	30089	-	7	14231405	14231523	+	91	8.2E-45	94.12	119
83315	83433	-	7	14231405	14231523	+	91	8.2E-45	94.12	119
146383	146501	-	7	14231405	14231523	+	91	8.2E-45	94.12	119
280488	280606	-	7	14231405	14231523	+	91	8.2E-45	94.12	119
301538	301656	-	7	14231405	14231523	+	91	8.2E-45	94.12	119
314749	314867	-	7	14231405	14231523	+	91	8.2E-45	94.12	119
323848	323966	-	7	14231405	14231523	+	91	8.2E-45	94.12	119
331666	331784	-	7	14231405	14231523	+	91	8.2E-45	94.12	119
819027	819145	-	7	14231405	14231523	+	91	8.2E-45	94.12	119



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
4654717	4654835	+	7	14231405	14231523	+	91	8.2E-45	94.12	119
13576	13951	-	8	9239342	9239716	+	210	1.2E-114	88.74	382
86467	86842	-	8	9239342	9239716	+	210	1.2E-114	88.74	382
149537	149910	-	8	9239342	9239716	+	210	1.2E-114	88.74	382
283641	284015	-	8	9239342	9239716	+	210	1.2E-114	88.74	382
304693	305067	-	8	9239342	9239716	+	210	1.2E-114	88.74	382
317901	318275	-	8	9239342	9239716	+	210	1.2E-114	88.74	382
327002	327376	-	8	9239342	9239716	+	210	1.2E-114	88.74	382
334820	335266	-	8	9239342	9239716	+	210	1.2E-114	88.74	382
608973	609347	-	8	9239342	9239716	+	210	1.2E-114	88.74	382
822180	822554	-	8	9239342	9239716	+	210	1.2E-114	88.74	382
4651308	4651682	+	8	9239342	9239716	+	210	1.2E-114	88.74	382
13617	13871	-	8	9239422	9239676	+	158	5E-84	90.31	258
33391	33645	-	8	9239422	9239676	+	158	5E-84	90.31	258
149577	149831	-	8	9239422	9239676	+	158	5E-84	90.31	258
13617	13802	-	8	9239491	9239676	+	101	3.5E-50	88.36	189
33391	33576	-	8	9239491	9239676	+	101	3.5E-50	88.36	189
86507	86693	-	8	9239491	9239676	+	101	3.5E-50	88.36	189
149576	149761	-	8	9239491	9239676	+	101	3.5E-50	88.36	189
304733	304918	-	8	9239491	9239676	+	101	3.5E-50	88.36	189
317941	318126	-	8	9239491	9239676	+	101	3.5E-50	88.36	189
327042	327227	-	8	9239491	9239676	+	101	3.5E-50	88.36	189
334860	335045	-	8	9239491	9239676	+	101	3.5E-50	88.36	189
822220	822405	-	8	9239491	9239676	+	101	3.5E-50	88.36	189
4651457	4651642	+	8	9239491	9239676	+	101	3.5E-50	88.36	189
609013	609133	-	8	9239556	9239676	+	66	1.8E-29	88.52	122
32916	33025	-	8	9240044	9240152	+	93	1.4E-47	96.33	109
86033	86142	-	8	9240044	9240152	+	93	1.4E-47	96.33	109
149103	149211	-	8	9240044	9240152	+	93	1.4E-47	96.33	109
149121	149229	-	8	9240044	9240152	+	93	1.4E-47	96.33	109
304259	304367	-	8	9240044	9240152	+	93	1.4E-47	96.33	109
317467	317575	-	8	9240044	9240152	+	93	1.4E-47	96.33	109
326368	326476	-	8	9240044	9240152	+	93	1.4E-47	96.33	109
334386	334494	-	8	9240044	9240152	+	93	1.4E-47	96.33	109
608403	608511	-	8	9240044	9240152	+	93	1.4E-47	96.33	109
608539	608647	-	8	9240044	9240152	+	93	1.4E-47	96.33	109
821746	821854	-	8	9240044	9240152	+	93	1.4E-47	96.33	109
4652008	4652116	+	8	9240044	9240152	+	93	1.4E-47	96.33	109
148966	149072	-	8	9240187	9240292	+	70	3.7E-32	91.51	106
12879	12990	-	8	9240311	9240421	+	53	1E-21	86.32	117



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
32653	32764	-	8	9240311	9240421	+	53	1E-21	86.32	117
85770	85881	-	8	9240311	9240421	+	52	4E-21	86.21	116
148839	148949	-	8	9240311	9240421	+	53	1E-21	86.32	117
148853	148950	-	8	9240311	9240421	+	53	1E-21	86.32	117
282944	283053	-	8	9240312	9240421	+	52	4E-21	86.21	116
303996	304105	-	8	9240312	9240421	+	52	4E-21	86.21	116
317204	317313	-	8	9240312	9240421	+	52	4E-21	86.21	116
326305	326414	-	8	9240312	9240421	+	52	4E-21	86.21	116
334123	334232	-	8	9240312	9240421	+	52	4E-21	86.21	116
608276	608386	-	8	9240311	9240421	+	53	1E-21	86.32	117
821483	821593	-	8	9240311	9240421	+	53	1E-21	86.32	117
4652269	4652379	+	8	9240311	9240421	+	53	1E-21	86.32	117
10630	10728	-	8	9244405	9244503	+	68	4.9E-31	92	100
30404	30502	-	8	9244405	9244503	+	68	4.9E-31	92	100
83748	83846	-	8	9244405	9244503	+	68	4.9E-31	92	100
146816	146914	-	8	9244405	9244503	+	68	4.9E-31	92	100
280922	281019	-	8	9244405	9244503	+	68	4.9E-31	92	100
10197	10315	-	8	9244818	9244936	+	91	8.2E-45	94.12	119
29971	30089	-	8	9244818	9244936	+	91	8.2E-45	94.12	119
83315	83433	-	8	9244818	9244936	+	91	8.2E-45	94.12	119
146383	146501	-	8	9244818	9244936	+	91	8.2E-45	94.12	119
280488	280606	-	8	9244818	9244936	+	91	8.2E-45	94.12	119
301538	301656	-	8	9244818	9244936	+	91	8.2E-45	94.12	119
314749	314867	-	8	9244818	9244936	+	91	8.2E-45	94.12	119
323848	323966	-	8	9244818	9244936	+	91	8.2E-45	94.12	119
331666	331784	-	8	9244818	9244936	+	91	8.2E-45	94.12	119
819027	819145	-	8	9244818	9244936	+	91	8.2E-45	94.12	119
4654717	4654835	+	8	9244818	9244936	+	91	8.2E-45	94.12	119
32916	33025	-	10	10281248	10281356	+	93	1.4E-47	96.33	109
86033	86142	-	10	10281248	10281356	+	93	1.4E-47	96.33	109
149103	149211	-	10	10281248	10281356	+	93	1.4E-47	96.33	109
149121	149229	-	10	10281248	10281356	+	93	1.4E-47	96.33	109
304259	304367	-	10	10281248	10281356	+	93	1.4E-47	96.33	109
317467	317575	-	10	10281248	10281356	+	93	1.4E-47	96.33	109
326368	326476	-	10	10281248	10281356	+	93	1.4E-47	96.33	109
334386	334494	-	10	10281248	10281356	+	93	1.4E-47	96.33	109
608403	608511	-	10	10281248	10281356	+	93	1.4E-47	96.33	109
608539	608647	-	10	10281248	10281356	+	93	1.4E-47	96.33	109
821746	821854	-	10	10281248	10281356	+	93	1.4E-47	96.33	109
4652008	4652116	+	10	10281248	10281356	+	93	1.4E-47	96.33	109
148966	149072	-	10	10281391	10281496	+	70	3.7E-32	91.51	106
12879	12990	-	10	10281515	10281625	+	53	1E-21	86.32	117





Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
32653	32764	-	10	10281515	10281625	+	53	1E-21	86.32	117
85770	85881	-	10	10281515	10281625	+	52	4E-21	86.21	116
148839	148949	-	10	10281515	10281625	+	53	1E-21	86.32	117
148853	148950	-	10	10281515	10281625	+	53	1E-21	86.32	117
282944	283053	-	10	10281516	10281625	+	52	4E-21	86.21	116
303996	304105	-	10	10281516	10281625	+	52	4E-21	86.21	116
317204	317313	-	10	10281516	10281625	+	52	4E-21	86.21	116
326305	326414	-	10	10281516	10281625	+	52	4E-21	86.21	116
334123	334232	-	10	10281516	10281625	+	52	4E-21	86.21	116
608276	608386	-	10	10281515	10281625	+	53	1E-21	86.32	117
821483	821593	-	10	10281515	10281625	+	53	1E-21	86.32	117
4652269	4652379	+	10	10281515	10281625	+	53	1E-21	86.32	117
10630	10728	-	10	10285899	10285997	+	68	4.9E-31	92	100
30404	30502	-	10	10285899	10285997	+	68	4.9E-31	92	100
83748	83846	-	10	10285899	10285997	+	68	4.9E-31	92	100
146816	146914	-	10	10285899	10285997	+	68	4.9E-31	92	100
280922	281019	-	10	10285899	10285997	+	68	4.9E-31	92	100
10196	10315	+	10	10389963	10390082	+	92	2E-45	94.17	120
29970	30089	+	10	10389963	10390082	+	92	2E-45	94.17	120
83314	83433	+	10	10389963	10390082	+	92	2E-45	94.17	120
146382	146501	+	10	10389963	10390082	+	92	2E-45	94.17	120
280487	280606	+	10	10389963	10390082	+	92	2E-45	94.17	120
301537	301656	+	10	10389963	10390082	+	92	2E-45	94.17	120
314748	314867	+	10	10389963	10390082	+	92	2E-45	94.17	120
323847	323966	+	10	10389963	10390082	+	92	2E-45	94.17	120
331665	331784	+	10	10389963	10390082	+	92	2E-45	94.17	120
819026	819145	+	10	10389963	10390082	+	92	2E-45	94.17	120
4654717	4654836	-	10	10389963	10390082	+	92	2E-45	94.17	120
12879	12990	+	10	10394751	10394861	+	53	1E-21	86.32	117
32653	32764	+	10	10394751	10394861	+	53	1E-21	86.32	117
85770	85881	+	10	10394751	10394861	+	52	4E-21	86.21	116
148839	148949	+	10	10394751	10394861	+	53	1E-21	86.32	117
148853	148950	+	10	10394751	10394861	+	53	1E-21	86.32	117
282944	283053	+	10	10394751	10394860	+	52	4E-21	86.21	116
303996	304105	+	10	10394751	10394860	+	52	4E-21	86.21	116
317204	317313	+	10	10394751	10394860	+	52	4E-21	86.21	116
326305	326414	+	10	10394751	10394860	+	52	4E-21	86.21	116
334123	334232	+	10	10394751	10394860	+	52	4E-21	86.21	116
608276	608386	+	10	10394751	10394861	+	53	1E-21	86.32	117
821483	821593	+	10	10394751	10394861	+	53	1E-21	86.32	117
4652269	4652379	-	10	10394751	10394861	+	53	1E-21	86.32	117
32916	33025	+	10	10395020	10395128	+	89	4.4E-45	95.41	109
86033	86142	+	10	10395020	10395128	+	89	4.4E-45	95.41	109



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
148966	149072	+	10	10394880	10394985	+	70	3.7E-32	91.51	106
149103	149211	+	10	10395020	10395128	+	89	4.4E-45	95.41	109
149121	149229	+	10	10395020	10395128	+	89	4.4E-45	95.41	109
304259	304367	+	10	10395020	10395128	+	89	4.4E-45	95.41	109
317467	317575	+	10	10395020	10395128	+	89	4.4E-45	95.41	109
326368	326476	+	10	10395020	10395128	+	89	4.4E-45	95.41	109
334386	334494	+	10	10395020	10395128	+	89	4.4E-45	95.41	109
608403	608511	+	10	10395020	10395128	+	89	4.4E-45	95.41	109
608539	608647	+	10	10395020	10395128	+	89	4.4E-45	95.41	109
821746	821854	+	10	10395020	10395128	+	89	4.4E-45	95.41	109
4652008	4652116	-	10	10395020	10395128	+	89	4.4E-45	95.41	109
13576	13951	+	10	10395456	10395830	+	202	7.6E-110	88.22	382
86467	86842	+	10	10395456	10395830	+	202	7.6E-110	88.22	382
149537	149910	+	10	10395456	10395830	+	202	7.6E-110	88.22	382
283641	284015	+	10	10395456	10395830	+	202	7.6E-110	88.22	382
304693	305067	+	10	10395456	10395830	+	202	7.6E-110	88.22	382
317901	318275	+	10	10395456	10395830	+	202	7.6E-110	88.22	382
327002	327376	+	10	10395456	10395830	+	202	7.6E-110	88.22	382
334820	335266	+	10	10395456	10395830	+	202	7.6E-110	88.22	382
608973	609347	+	10	10395456	10395830	+	202	7.6E-110	88.22	382
822180	822554	+	10	10395456	10395830	+	202	7.6E-110	88.22	382
4651308	4651682	-	10	10395456	10395830	+	202	7.6E-110	88.22	382
13617	13871	+	10	10395496	10395750	+	150	3.2E-79	89.53	258
13617	13802	+	10	10395496	10395681	+	97	9.1E-48	87.83	189
33391	33645	+	10	10395496	10395750	+	150	3.2E-79	89.53	258
33391	33576	+	10	10395496	10395681	+	97	9.1E-48	87.83	189
86507	86693	+	10	10395496	10395681	+	97	9.1E-48	87.83	189
149576	149761	+	10	10395496	10395681	+	97	9.1E-48	87.83	189
149577	149831	+	10	10395496	10395750	+	150	3.2E-79	89.53	258
304733	304918	+	10	10395496	10395681	+	97	9.1E-48	87.83	189
317941	318126	+	10	10395496	10395681	+	97	9.1E-48	87.83	189
327042	327227	+	10	10395496	10395681	+	97	9.1E-48	87.83	189
334860	335045	+	10	10395496	10395681	+	97	9.1E-48	87.83	189
609013	609133	+	10	10395496	10395616	+	62	4.8E-27	87.7	122
822220	822405	+	10	10395496	10395681	+	97	9.1E-48	87.83	189
4651457	4651642	-	10	10395496	10395681	+	97	9.1E-48	87.83	189
10197	10315	-	10	19946322	19946440	-	91	8.2E-45	94.12	119
29971	30089	-	10	19946322	19946440	-	91	8.2E-45	94.12	119
83315	83433	-	10	19946322	19946440	-	91	8.2E-45	94.12	119
146383	146501	-	10	19946322	19946440	-	91	8.2E-45	94.12	119
280488	280606	-	10	19946322	19946440	-	91	8.2E-45	94.12	119
301538	301656	-	10	19946322	19946440	-	91	8.2E-45	94.12	119
314749	314867	-	10	19946322	19946440	-	91	8.2E-45	94.12	119
323848	323966	-	10	19946322	19946440	-	91	8.2E-45	94.12	119



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
331666	331784	-	10	19946322	19946440	-	91	8.2E-45	94.12	119
819027	819145	-	10	19946322	19946440	-	91	8.2E-45	94.12	119
4654717	4654835	+	10	19946322	19946440	-	91	8.2E-45	94.12	119
10630	10728	-	10	19946755	19946853	-	68	4.9E-31	92	100
30404	30502	-	10	19946755	19946853	-	68	4.9E-31	92	100
83748	83846	-	10	19946755	19946853	-	68	4.9E-31	92	100
146816	146914	-	10	19946755	19946853	-	68	4.9E-31	92	100
280922	281019	-	10	19946755	19946853	-	68	4.9E-31	92	100
12879	12990	-	10	19951121	19951231	-	53	1E-21	86.32	117
32653	32764	-	10	19951121	19951231	-	53	1E-21	86.32	117
85770	85881	-	10	19951121	19951231	-	52	4E-21	86.21	116
148839	148949	-	10	19951121	19951231	-	53	1E-21	86.32	117
148840	148949	-	10	19951121	19951230	-	52	4E-21	86.21	116
282944	283053	-	10	19951121	19951230	-	52	4E-21	86.21	116
303996	304105	-	10	19951121	19951230	-	52	4E-21	86.21	116
317204	317313	-	10	19951121	19951230	-	52	4E-21	86.21	116
326305	326414	-	10	19951121	19951230	-	52	4E-21	86.21	116
334123	334232	-	10	19951121	19951230	-	52	4E-21	86.21	116
608276	608386	-	10	19951121	19951231	-	53	1E-21	86.32	117
821483	821593	-	10	19951121	19951231	-	53	1E-21	86.32	117
4652269	4652379	+	10	19951121	19951231	-	53	1E-21	86.32	117
32916	33025	-	10	19951390	19951498	-	93	1.2E-47	96.33	109
86033	86142	-	10	19951390	19951498	-	93	1.2E-47	96.33	109
148966	149072	-	10	19951250	19951355	-	70	3.7E-32	91.51	106
149103	149211	-	10	19951390	19951498	-	93	1.2E-47	96.33	109
149121	149229	-	10	19951390	19951498	-	93	1.2E-47	96.33	109
304259	304367	-	10	19951390	19951498	-	93	1.2E-47	96.33	109
317467	317575	-	10	19951390	19951498	-	93	1.2E-47	96.33	109
326368	326476	-	10	19951390	19951498	-	93	1.2E-47	96.33	109
334386	334494	-	10	19951390	19951498	-	93	1.2E-47	96.33	109
608403	608511	-	10	19951390	19951498	-	93	1.2E-47	96.33	109
608539	608647	-	10	19951390	19951498	-	93	1.2E-47	96.33	109
821746	821854	-	10	19951390	19951498	-	93	1.2E-47	96.33	109
4652008	4652116	+	10	19951390	19951498	-	93	1.2E-47	96.33	109
13576	13951	-	10	19951829	19952203	-	210	1.2E-114	88.74	382
86467	86842	-	10	19951829	19952203	-	210	1.2E-114	88.74	382
149537	149910	-	10	19951829	19952203	-	210	1.2E-114	88.74	382
283641	284015	-	10	19951829	19952203	-	210	1.2E-114	88.74	382
304693	305067	-	10	19951829	19952203	-	210	1.2E-114	88.74	382
317901	318275	-	10	19951829	19952203	-	210	1.2E-114	88.74	382
327002	327376	-	10	19951829	19952203	-	210	1.2E-114	88.74	382
334820	335266	-	10	19951829	19952203	-	210	1.2E-114	88.74	382
608973	609347	-	10	19951829	19952203	-	210	1.2E-114	88.74	382



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
822180	822554	-	10	19951829	19952203	-	210	1.2E-114	88.74	382
4651308	4651682	+	10	19951829	19952203	-	210	1.2E-114	88.74	382
13617	13871	-	10	19951869	19952123	-	158	5E-84	90.31	258
33391	33645	-	10	19951869	19952123	-	158	5E-84	90.31	258
86507	86693	-	10	19951869	19952054	-	101	3.5E-50	88.36	189
149577	149831	-	10	19951869	19952123	-	158	5E-84	90.31	258
304733	304918	-	10	19951869	19952054	-	101	3.5E-50	88.36	189
317941	318126	-	10	19951869	19952054	-	101	3.5E-50	88.36	189
327042	327227	-	10	19951869	19952054	-	101	3.5E-50	88.36	189
334860	335045	-	10	19951869	19952054	-	101	3.5E-50	88.36	189
609013	609133	-	10	19951869	19951989	-	66	1.8E-29	88.52	122
822220	822405	-	10	19951869	19952054	-	101	3.5E-50	88.36	189
4651457	4651642	+	10	19951869	19952054	-	101	3.5E-50	88.36	189
13576	13951	+	12	5633037	5633411	-	203	1.9E-110	88.25	383
86467	86842	+	12	5633037	5633411	-	203	1.9E-110	88.25	383
149537	149910	+	12	5633037	5633411	-	203	1.9E-110	88.25	383
283641	284015	+	12	5633037	5633411	-	203	1.9E-110	88.25	383
304693	305067	+	12	5633037	5633411	-	203	1.9E-110	88.25	383
317901	318275	+	12	5633037	5633411	-	203	1.9E-110	88.25	383
327002	327376	+	12	5633037	5633411	-	203	1.9E-110	88.25	383
334820	335266	+	12	5633037	5633411	-	203	1.9E-110	88.25	383
608973	609347	+	12	5633037	5633411	-	203	1.9E-110	88.25	383
822180	822554	+	12	5633037	5633411	-	203	1.9E-110	88.25	383
4651308	4651682	-	12	5633037	5633411	-	203	1.9E-110	88.25	383
13618	13871	+	12	5633117	5633370	-	153	5.1E-81	89.88	257
33392	33645	+	12	5633117	5633370	-	153	5.1E-81	89.88	257
149578	149831	+	12	5633117	5633370	-	153	5.1E-81	89.88	257
13618	13802	+	12	5633186	5633370	-	96	3.7E-47	87.77	188
33392	33576	+	12	5633186	5633370	-	96	3.7E-47	87.77	188
86509	86693	+	12	5633186	5633370	-	96	3.7E-47	87.77	188
149577	149761	+	12	5633186	5633370	-	96	3.7E-47	87.77	188
304734	304918	+	12	5633186	5633370	-	96	3.7E-47	87.77	188
317942	318126	+	12	5633186	5633370	-	96	3.7E-47	87.77	188
327043	327227	+	12	5633186	5633370	-	96	3.7E-47	87.77	188
334861	335045	+	12	5633186	5633370	-	96	3.7E-47	87.77	188
609014	609133	+	12	5633251	5633370	-	61	1.9E-26	87.6	121
822221	822405	+	12	5633186	5633370	-	96	3.7E-47	87.77	188
4651457	4651641	-	12	5633186	5633370	-	96	3.7E-47	87.77	188
12879	12986	+	12	5633988	5634094	-	49	2.6E-19	85.84	113
32653	32760	+	12	5633988	5634094	-	49	2.6E-19	85.84	113
85770	85877	+	12	5633988	5634094	-	48	1.1E-18	85.71	112
148839	148954	+	12	5633988	5634094	-	49	2.6E-19	85.84	113



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
282944	283050	+	12	5633988	5634094	-	49	2.6E-19	85.84	113
303996	304102	+	12	5633988	5634094	-	49	2.6E-19	85.84	113
317204	317310	+	12	5633988	5634094	-	49	2.6E-19	85.84	113
326305	326411	+	12	5633988	5634094	-	49	2.6E-19	85.84	113
334123	334229	+	12	5633988	5634094	-	49	2.6E-19	85.84	113
608276	608382	+	12	5633988	5634094	-	49	2.6E-19	85.84	113
821483	821589	+	12	5633988	5634094	-	49	2.6E-19	85.84	113
4652273	4652379	-	12	5633988	5634094	-	49	2.6E-19	85.84	113
13598	13712	+	12	8526139	8526251	+	40	1E-39	83.62	116
33372	33486	+	12	8526139	8526251	+	40	1E-39	83.62	116
149559	149671	+	12	8526139	8526251	+	43	6.1E-41	84.35	115
283663	283776	+	12	8526139	8526251	+	40	3.6E-39	83.62	116
304715	304828	+	12	8526139	8526251	+	40	3.6E-39	83.62	116
317923	318036	+	12	8526139	8526251	+	40	3.6E-39	83.62	116
327024	327137	+	12	8526139	8526251	+	40	3.6E-39	83.62	116
334842	335027	+	12	8526139	8526251	+	40	3.6E-39	83.62	116
608995	609108	+	12	8526139	8526251	+	40	3.6E-39	83.62	116
822202	822315	+	12	8526139	8526251	+	40	3.6E-39	83.62	116
4651547	4651660	-	12	8526139	8526251	+	40	3.6E-39	83.62	116
13745	13871	+	12	8526284	8526410	+	59	1E-39	86.61	127
33518	33645	+	12	8526284	8526410	+	59	1E-39	86.61	127
149704	149830	+	12	8526284	8526410	+	59	6.1E-41	86.61	127
283809	283935	+	12	8526284	8526410	+	59	3.6E-39	86.61	127
304861	304987	+	12	8526284	8526410	+	59	3.6E-39	86.61	127
318069	318195	+	12	8526284	8526410	+	59	3.6E-39	86.61	127
327170	327296	+	12	8526284	8526410	+	59	3.6E-39	86.61	127
334988	335186	+	12	8526284	8526410	+	59	3.6E-39	86.61	127
609141	609867	+	12	8526284	8526410	+	59	3.6E-39	86.61	127
822348	822474	+	12	8526284	8526410	+	59	3.6E-39	86.61	127
4651388	4651514	-	12	8526284	8526410	+	59	3.6E-39	86.61	127
13745	13871	+	12	13351723	13351849	-	63	4.4E-27	87.4	127
33518	33645	+	12	13351723	13351849	-	63	4.4E-27	87.4	127
149704	149830	+	12	13351723	13351849	-	63	8.6E-27	87.4	127
283809	283935	+	12	13351723	13351849	-	63	8.6E-27	87.4	127
304861	304987	+	12	13351723	13351849	-	63	8.6E-27	87.4	127
318069	318195	+	12	13351723	13351849	-	63	8.6E-27	87.4	127
327170	327296	+	12	13351723	13351849	-	63	8.6E-27	87.4	127
334988	335186	+	12	13351723	13351849	-	63	8.6E-27	87.4	127
609141	609267	+	12	13351723	13351849	-	63	8.6E-27	87.4	127
822348	822474	+	12	13351723	13351849	-	63	8.6E-27	87.4	127
4651388	4651514	-	12	13351723	13351849	-	63	8.6E-27	87.4	127
10192	10315	-	12	20601570	20601692	+	85	4.3E-41	92	125
29966	30089	-	12	20601570	20601692	+	85	4.3E-41	92	125



Bacillus Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
83310	83433	-	12	20601570	20601692	+	85	4.3E-41	92	125
146379	146501	-	12	20601570	20601692	+	85	4.3E-41	92	125
280484	280606	-	12	20601570	20601692	+	85	4.3E-41	92	125
301534	301656	-	12	20601570	20601692	+	85	4.3E-41	92	125
314745	314867	-	12	20601570	20601692	+	85	4.3E-41	92	125
323844	323966	-	12	20601570	20601692	+	85	4.3E-41	92	125
331662	331784	-	12	20601570	20601692	+	85	4.3E-41	92	125
819023	819145	-	12	20601570	20601692	+	85	4.3E-41	92	125
4654717	4654839	+	12	20601570	20601692	+	85	4.3E-41	92	125
13709	13932	-	12	24643330	24643553	+	105	7.1E-52	86.46	229
33490	33645	-	12	24643391	24643553	+	89	1.2E-42	88.48	165
86600	86832	-	12	24643330	24643553	+	105	7.1E-52	86.46	223
149668	149891	-	12	24643330	24643553	+	105	7.1E-52	86.46	229
283773	284015	-	12	24643330	24643553	+	105	7.1E-52	86.46	229
304825	305048	-	12	24643330	24643553	+	105	7.1E-52	86.46	229
318033	318256	-	12	24643330	24643553	+	105	7.1E-52	86.46	229
327134	327357	-	12	24643330	24643553	+	105	7.1E-52	86.46	229
334952	335247	-	12	24643330	24643553	+	105	7.1E-52	86.46	229
609105	6093288	-	12	24643330	24643553	+	105	7.1E-52	86.46	229
822312	822535	-	12	24643330	24643553	+	105	7.1E-52	86.46	229
4651327	4651550	+	12	24643330	24643553	+	105	7.1E-52	86.46	229

**Table C-2.** *Xanthomonas oryzae* alignments in the rice genome

Xanthomonas Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
3101765	3101906	-	1	21872692	21872833	+	73	1.40E-33	87.59	145
3817658	3817830	+	1	29540592	29540764	+	69	5.70E-31	84.75	177
309637	309746	-	1	33567086	33567195	+	62	1.10E-26	89.09	110
310122	310366	-	1	33566480	33566724	+	111	3.90E-56	86.06	251
536923	537032	-	1	33567086	33567195	+	62	1.10E-26	89.09	110
537408	537652	-	1	33566480	33566724	+	111	3.90E-56	86.06	251
306611	306716	-	2	808137	808242	+	78	4.10E-37	93.4	106
310157	310261	+	2	815286	815390	+	48	5.00E-41	86.11	108
533897	534002	-	2	808137	808242	+	78	4.10E-37	93.4	106
537443	537547	+	2	815286	815390	+	48	5.00E-41	86.11	108
306611	306716	+	2	14191648	14191753	+	86	3.10E-42	95.28	106
533897	534002	+	2	14191648	14191753	+	86	3.10E-42	95.28	106
3845432	3845575	-	2	23057548	23057691	+	71	2.30E-32	87.07	147
3862858	3863001	-	2	23057548	23057691	+	71	2.30E-32	87.07	147
306611	306716	-	3	23618360	23618465	-	75	3.10E-35	92.52	107
533897	534002	-	3	23618360	23618465	-	75	3.10E-35	92.52	107
310157	310365	-	3	31755438	31755646	-	97	1.40E-52	86.18	217
537443	537651	-	3	31755438	31755646	-	97	1.40E-52	86.18	217
310157	310365	-	3	31756570	31756778	-	97	1.40E-52	86.18	217
537443	537651	-	3	31756570	31756778	-	97	1.40E-52	86.18	217
306611	306716	+	4	8907662	8907767	+	90	5.40E-45	96.23	106
310157	310365	+	4	8913252	8913460	+	97	1.60E-52	86.18	217
533897	534002	+	4	8907662	8907767	+	90	5.40E-45	96.23	106
537443	537651	+	4	8913252	8913460	+	97	1.60E-52	86.18	217
306611	306716	+	4	8984065	8984170	+	90	5.40E-45	96.23	106
533897	534002	+	4	8984065	8984170	+	90	5.40E-45	96.23	106
306611	306716	+	4	9002493	9002598	+	90	5.40E-45	96.23	106
533897	534002	+	4	9002493	9002598	+	90	5.40E-45	96.23	106
310157	310365	+	4	9008085	9008293	+	97	1.60E-52	86.18	217
537443	537651	+	4	9008085	9008293	+	97	1.60E-52	86.18	217
306611	306716	+	4	9043093	9043198	+	90	5.40E-45	96.23	106
533897	534002	+	4	9043093	9043198	+	90	5.40E-45	96.23	106
310157	310365	+	4	9048685	9048893	+	97	1.60E-52	86.18	217

Xanthomonas Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
537443	537651	+	4	9048685	9048893	+	97	1.60E-52	86.18	217
306614	306716	-	4	23268289	23268391	+	79	9.70E-38	94.17	103
533900	534002	-	4	23268289	23268391	+	79	9.70E-38	94.17	103
306611	306714	-	4	32486318	32486421	+	77	1.70E-36	93.33	105
533897	534000	-	4	32486318	32486421	+	77	1.70E-36	93.33	105
306611	306716	-	5	884203	884308	+	90	5.40E-45	96.23	106
533897	534002	-	5	884203	884308	+	90	5.40E-45	96.23	106
306611	306716	-	5	12785252	12785357	+	90	5.40E-45	96.23	106
533897	534002	-	5	12785252	12785357	+	90	5.40E-45	96.23	106
2130495	2130652	-	5	17472623	17472780	+	54	6.40E-22	83.33	162
2130555	2130652	-	5	20846967	20847064	+	49	4.50E-23	87.13	101
310122	310365	-	6	16740598	16740771	+	81	1.10E-37	86.44	177
537408	537581	-	6	16740598	16740771	+	81	1.10E-37	86.44	177
3817655	3817780	-	6	24360517	24360642	+	48	1.30E-26	84.38	128
306611	306716	-	7	14231418	14231523	+	90	5.40E-45	96.23	106
533897	534002	-	7	14231418	14231523	+	90	5.40E-45	96.23	106
310157	310365	-	8	9239422	9239630	+	97	1.50E-52	86.18	217
537443	537651	-	8	9239422	9239630	+	97	1.50E-52	86.18	217
306611	306716	-	8	9244831	9244936	+	90	5.40E-45	96.23	106
533897	534002	-	8	9244831	9244936	+	90	5.40E-45	96.23	106
2130515	2130652	-	8	5640788	5640925	+	55	1.60E-22	84.62	143
306611	306716	+	10	10389964	10390069	+	90	5.40E-45	96.23	106
533897	534002	+	10	10389964	10390069	+	90	5.40E-45	96.23	106
310157	310365	+	10	10395542	10395750	+	92	1.30E-49	85.65	216
537443	537651	+	10	10395542	10395750	+	92	1.30E-49	85.65	216
306611	306716	-	10	19946322	19946427	-	90	5.40E-45	96.23	106
533897	534002	-	10	19946322	19946427	-	90	5.40E-45	96.23	106
310157	310365	-	10	19951915	19952123	-	97	1.20E-52	86.18	217
537443	537651	-	10	19951915	19952123	-	97	1.20E-52	86.18	217
310157	310365	+	12	5633117	5633325	-	93	3.60E-50	85.71	217
537443	537651	+	12	5633117	5633325	-	93	3.60E-50	85.71	217
310136	310366	+	12	8526182	8526411	+	93	2.00E-45	84.81	237





Xanthomonas Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
537422	537652	+	12	8526182	8526411	+	93	2.00E-45	84.81	237
310133	310366	+	12	13351722	13351966	-	99	2.00E-48	84.86	251
537408	537652	+	12	13351722	13351966	-	99	2.00E-48	84.86	251
306611	306716	-	12	20601583	20601688	+	83	2.90E-40	94.39	107
533897	534002	-	12	20601583	20601688	+	83	2.90E-40	94.39	107

**Table C-3.** *Pseudomonas syringae* alignments in the rice genome

Xanthomonas Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
1240999	1241175	-	1	29540592	29540767	+	61	3.80E-26	83	181
3847997	3848275	+	1	33566475	33566753	+	122	1.00E-62	86	286
5413584	5423862	+	1	33566475	33566753	+	118	2.50E-60	85	286
5948505	5948783	+	1	33566475	33566753	+	122	1.00E-62	86	286
3848073	3848246	+	1	33566551	33566724	+	82	8.40E-39	87	178
5423659	5423832	+	1	33566551	33566724	+	78	2.10E-36	86	178
5423659	5423760	+	1	33566551	33566652	+	52	3.30E-21	88	104
5948581	5948754	+	1	33566551	33566724	+	82	8.40E-39	87	178
3848622	3848731	+	1	33567086	33567195	+	63	2.80E-27	89	111
5424208	5424317	+	1	33567086	33567195	+	63	2.80E-27	89	111
5949130	5949239	+	1	33567086	33567195	+	63	2.80E-27	89	111
3847930	3848211	-	1	33567570	33567851	+	100	4.90E-49	84	292
3848107	3848211	-	1	33567570	33567674	+	53	2.30E-21	87	109
5423517	5423798	-	1	33567570	33567851	+	104	2.00E-51	84	292
5423659	5423797	-	1	33567570	33567708	+	56	3.60E-23	85	144
5948438	5948719	-	1	33567570	33567851	+	100	4.90E-49	84	292
3851688	3851806	+	2	808124	808242	+	71	1.40E-32	90	119
5427274	5427392	+	2	808124	808242	+	71	1.40E-32	90	119
5952196	5952314	+	2	808124	808242	+	71	1.40E-32	90	119
3848107	3848211	-	2	815286	815390	+	48	6.20E-40	86	108
3848107	3848211	-	2	815286	815390	+	48	2.30E-18	86	108
5423688	5423797	-	2	815286	815395	+	49	5.70E-19	86	113
5423689	5423798	-	2	815286	815395	+	49	1.60E-40	86	113
5948615	5948719	-	2	815286	815390	+	48	6.20E-40	86	108
3847930	3848080	-	2	815417	815567	+	52	6.20E-40	83	156
5423517	5423667	-	2	815417	815567	+	52	1.60E-40	83	156
5948438	5948588	-	2	815417	815567	+	52	6.20E-40	83	156
3851688	3851806	-	2	14191648	14191766	+	79	1.80E-37	92	119
5427274	5427392	-	2	14191648	14191766	+	79	1.80E-37	92	119
5952196	5952314	-	2	14191648	14191766	+	79	1.80E-37	92	119
4010715	4010842	+	3	1769236	1769363	-	63	1.20E-27	87	131
3847930	3848211	+	3	31755438	31755719	-	100	4.90E-49	84	292
5423517	5423798	+	3	31755438	31755719	-	104	2.00E-51	84	292
5948438	5948719	+	3	31755438	31755719	-	100	4.90E-49	84	292
5423659	5423760	+	3	31755475	31755576	-	35	6.50E-11	83	107



Xanthomonas Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
3847930	3848211	+	3	31756570	31756851	-	100	4.90E-49	84	292
5423517	5423798	+	3	31756570	31756851	-	104	2.00E-51	84	292
5948438	5948719	+	3	31756570	31756851	-	100	4.90E-49	84	292
5423659	5423760	+	3	31756607	31756708	-	35	6.50E-11	83	107
3851688	3851806	-	4	8907662	8907780	+	83	6.40E-40	92	119
5427274	5427392	-	4	8907662	8907780	+	83	6.40E-40	92	119
5952196	5952314	-	4	8907662	8907780	+	83	6.40E-40	92	119
3847930	3848211	-	4	8913252	8913533	+	100	4.90E-49	84	292
3848107	3848211	-	4	8913252	8913356	+	53	2.30E-21	87	109
5423517	5423798	-	4	8913252	8913533	+	104	2.00E-51	84	292
5948438	5948719	-	4	8913252	8913533	+	100	4.90E-49	84	292
5423659	5423760	-	4	8913289	8913390	+	35	6.50E-11	83	107
3851688	3851806	-	4	8984065	8984183	+	83	6.40E-40	92	119
5427274	5427392	-	4	8984065	8984183	+	83	6.40E-40	92	119
5952196	5952314	-	4	8984065	8984183	+	83	6.40E-40	92	119
3851688	3851806	-	4	9002493	9002611	+	83	6.40E-40	92	119
5427274	5427392	-	4	9002493	9002611	+	83	6.40E-40	92	119
5952196	5952314	-	4	9002493	9002611	+	83	6.40E-40	92	119
3847930	3848211	-	4	9008085	9008366	+	100	4.90E-49	84	292
5423517	5423798	-	4	9008085	9008366	+	104	2.00E-51	84	292
5423659	5423797	-	4	9008085	9008223	+	56	3.60E-23	85	144
5948438	5948719	-	4	9008085	9008366	+	100	4.90E-49	84	292
3851688	3851806	-	4	9043093	9043211	+	83	6.40E-40	92	119
5427274	5427392	-	4	9043093	9043211	+	83	6.40E-40	92	119
5952196	5952314	-	4	9043093	9043211	+	83	6.40E-40	92	119
3847930	3848211	-	4	9048685	9048966	+	100	4.90E-49	84	292
3848107	3848211	-	4	9048685	9048789	+	53	2.30E-21	87	109
5423517	5423798	-	4	9048685	9048966	+	104	2.00E-51	84	292
5423659	5423797	-	4	9048685	9048823	+	56	3.60E-23	85	144
5948438	5948719	-	4	9048685	9048966	+	100	4.90E-49	84	292
5952196	5952314	+	4	23268276	23268391	+	73	8.50E-34	91	117
3851688	3851806	+	5	884190	884308	+	83	6.40E-40	92	119
5427274	5427392	+	5	884190	884308	+	83	6.40E-40	92	119
5952196	5952314	+	5	884190	884308	+	83	6.40E-40	92	119
3851688	3851806	+	5	12785239	12785357	+	83	6.40E-40	92	119



Xanthomonas Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
5427274	5427392	+	5	12785239	12785357	+	83	6.40E-40	92	119
5952196	5952314	+	5	12785239	12785357	+	83	6.40E-40	92	119
3848073	3848246	+	6	16740598	16740771	+	85	1.30E-40	87	177
5423659	5423832	+	6	16740598	16740771	+	81	3.40E-38	86	177
5423660	5423833	+	6	16740598	16740771	+	81	1.10E-37	86	177
5948581	5948754	+	6	16740598	16740771	+	85	1.30E-40	87	177
1240999	1241179	+	6	24360464	24360643	+	69	5.90E-31	84	185
3851688	3851806	+	7	14231405	14231523	+	83	6.40E-40	92	119
5427274	5427392	+	7	14231405	14231523	+	83	6.40E-40	92	119
5952196	5952314	+	7	14231405	14231523	+	83	6.40E-40	92	119
3847930	3848211	+	8	9239349	9239630	+	100	4.90E-49	84	292
5423517	5423798	+	8	9239349	9239630	+	104	2.00E-51	84	292
5948438	5948719	+	8	9239349	9239630	+	100	4.90E-49	84	292
3851688	3851806	+	8	9244818	9244936	+	83	6.40E-40	92	119
5427274	5427392	+	8	9244818	9244936	+	83	6.40E-40	92	119
5952196	5952314	+	8	9244818	9244936	+	83	6.40E-40	92	119
3847930	3848211	-	10	10395542	10395823	+	95	4.80E-46	83	291
3851688	3851806	-	10	10389964	10390082	+	83	6.40E-40	92	119
5423517	5423798	-	10	10395542	10395823	+	99	2.00E-48	84	291
5427274	5427392	-	10	10389964	10390082	+	83	6.40E-40	92	119
5948438	5948719	-	10	10395542	10395823	+	95	4.80E-46	83	291
5952196	5952314	-	10	10389964	10390082	+	83	6.40E-40	92	119
3847930	3848211	+	10	19951915	19952196	-	100	4.90E-49	84	292
3851688	3851806	+	10	19946322	19946440	-	83	6.40E-40	92	119
5423517	5423798	+	10	19951915	19952196	-	104	2.00E-51	84	292
5427274	5427392	+	10	19946322	19946440	-	83	6.40E-40	92	119
5948438	5948719	+	10	19951915	19952196	-	100	4.90E-49	84	292
5952196	5952314	+	10	19946322	19946440	-	83	6.40E-40	92	119
3848073	3848174	+	11	13074159	13074260	+	52	9.00E-21	88	104
5423659	5423760	+	11	13074159	13074260	+	48	9.00E-19	87	104
5423660	5423761	+	11	13074159	13074260	+	48	5.90E-18	87	104
5948581	5948682	+	11	13074159	13074260	+	52	3.30E-21	88	104
3847930	3848211	-	12	5633044	5633325	-	96	1.20E-46	83	292
5423517	5423798	-	12	5633044	5633325	-	100	4.90E-49	84	292
5948438	5948719	-	12	5633044	5633325	-	96	1.20E-46	83	292
3847997	3848275	-	12	8526139	8526416	+	107	9.00E-54	84	287
5423584	5423862	-	12	8526139	8526416	+	103	2.20E-51	84	287
5948505	5948783	-	12	8526139	8526416	+	107	9.00E-54	84	287



Xanthomonas Query			Rice Chromosome				Stats			
Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
5948581	5948740	-	12	8526182	8526340	+	68	2.20E-30	85	164
3847997	3848246	-	12	13351717	13351966	-	108	8.10E-54	86	256
5423584	5423833	-	12	13351717	13351966	-	104	2.00E-51	85	256
5948505	5948754	-	12	13351717	13351966	-	108	8.10E-54	86	256
3847950	3848070	+	12	24643338	24643458	+	40	5.90E-20	83	124
5423537	5423657	+	12	24643338	24643458	+	40	1.50E-20	83	124
5948458	5948578	+	12	24643338	24643458	+	40	5.90E-20	83	124

**Table D-1.** Magnaporthe grisea alignments in the rice genome

Magnapotho Query				Rice Chromosome				Stats			
Contig	Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
1238	40793	40894	+	1	24262	24362	+	54	2.00E-22	88	102
103	5481	5615	-	1	10096525	10096658	+	86	3.90E-62	91	134
103	4715	4849	-	1	10097755	10097888	+	32	7.60E-09	81	136
103	4465	4599	-	1	10098717	10098850	+	59	5.00E-25	86	135
232	32593	32784	+	1	12628560	12628750	+	77	8.20E-35	85	193
1472	28409	29251	+	1	12628569	12628780	+	94	1.70E-45	86	218
232	32394	32586	+	1	12628589	12628780	+	65	1.20E-27	83	193
232	32167	32358	+	1	12628590	12628780	+	60	1.10E-24	83	192
1129	6724	6907	-	1	12628591	12628772	+	80	1.50E-37	86	184
1472	28429	29251	-	1	26094018	26094209	+	79	1.60E-36	85	195
232	32593	32784	-	1	26094048	26094238	+	65	6.40E-41	83	193
1129	6724	6907	+	1	26094108	26094207	+	41	3.90E-14	85	101
232	32149	32265	-	1	26094111	26094226	+	48	3.90E-19	85	116
232	32593	32747	-	1	26098507	26098660	+	51	2.60E-19	83	155
232	32154	32272	-	1	26098526	26098643	+	38	6.40E-41	83	118
1472	28409	29165	-	1	26098526	26098651	+	48	5.30E-18	84	128
887	20571	20739	-	1	28658039	28658206	+	65	1.30E-28	85	169
190	17742	17840	-	1	31730847	31730945	+	41	3.30E-14	85	101
103	4506	4599	+	1	34495993	34496085	+	61	3.20E-26	91	93
103	5481	5615	+	1	34498016	34498149	+	78	5.20E-52	90	134
1169	37522	37679	+	1	36167620	36167776	+	69	4.70E-31	86	161
1287	62858	62984	+	1	36366779	36366904	+	45	8.80E-17	84	129
789	9724	9836	-	1	36368256	36368367	+	29	6.50E-07	81	113
2242	2527	2649	-	1	36368314	36368435	+	44	6.10E-16	84	124
1287	63220	63344	+	1	36368323	36368446	+	64	1.90E-27	88	124
1287	64122	64268	+	1	36369164	36369309	+	62	1.60E-36	85	150
767	14380	14564	-	1	37838097	37838281	+	82	1.00E-44	86	186
767	14403	14630	+	1	42812394	42812620	+	47	3.80E-17	80	231
929	12303	12407	+	2	83463	83566	+	30	7.20E-08	82	106
1506	27065	27252	+	2	1116252	1116438	+	50	1.60E-19	82	190
828	29843	30045	-	2	2560454	2560655	+	75	1.80E-34	84	207
232	31897	32046	+	2	3340643	3340791	+	47	9.40E-138	83	151
232	32130	32787	+	2	3340648	3341304	+	241	1.20E-132	84	665
1472	28393	29192	+	2	3340648	3340816	+	76	1.20E-49	86	172
1129	6724	6907	-	2	3340686	3340867	+	87	9.20E-42	87	183
232	32089	32787	+	2	3340835	3341532	+	219	9.40E-138	83	707
1472	28393	29251	+	2	3340876	3341103	+	114	1.80E-57	87	234
1129	6724	6907	-	2	3340914	3341076	+	75	1.50E-34	87	163
1472	28393	29188	+	2	3341104	3341268	+	98	9.40E-63	90	166
232	31906	32187	+	2	3341108	3341388	+	81	1.50E-130	82	285
1129	6724	6907	-	2	3341142	3341323	+	87	9.20E-42	87	183

Magnapotho Query				Rice Chromosome				Stats			
Contig	Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
232	32394	32787	+	2	3341368	3341760	+	142	4.20E-112	84	398
1472	28429	29191	+	2	3341368	3341499	+	94	2.30E-60	93	134
1129	6724	6907	-	2	3341370	3341544	+	73	2.40E-33	85	177
232	32203	32787	+	2	3341405	3341988	+	173	1.50E-130	82	593
1472	28394	29191	+	2	3341561	3341727	+	85	5.30E-55	88	169
232	31906	32187	+	2	3341564	3341844	+	75	1.30E-33	82	283
232	32200	32559	+	2	3341630	3341988	+	103	6.60E-89	82	363
232	31906	32130	+	2	3341792	3342015	+	54	4.30E-21	81	226
1472	28429	29191	+	2	3341824	3341955	+	70	5.50E-39	88	134
103	4465	4626	+	2	3620110	3620270	+	71	3.00E-32	86	163
103	5481	5615	+	2	3622270	3622403	+	74	1.50E-52	89	134
1169	37524	37679	-	2	27988474	27988628	+	67	7.40E-30	86	159
1491	14983	15083	+	2	28714599	28714698	+	88	2.80E-44	97	100
2169	4957	5201	+	2	28714599	28714842	+	185	1.50E-100	94	245
2169	5381	5510	+	2	28715028	28715156	+	93	2.30E-51	93	129
1280	19275	19418	+	2	28767311	28767453	+	49	4.20E-19	83	145
103	4468	4623	+	3	318636	318790	+	58	2.00E-24	84	158
103	4996	5106	+	3	319210	319319	+	50	6.50E-20	86	110
103	5481	5615	+	3	319654	319787	+	67	2.90E-50	87	135
1169	37522	37679	+	3	1059361	1059517	+	69	4.70E-31	86	161
714	20910	209135	+	3	4074435	4074559	-	66	1.80E-29	88	126
714	20190	20303	+	3	4075697	4075809	-	46	5.00E-17	85	114
714	20910	209135	+	3	4079982	4080106	-	66	1.80E-29	88	126
714	20190	20303	+	3	4081137	4081249	-	46	5.00E-17	85	114
714	20910	209135	+	3	4090650	4090774	-	70	6.70E-32	89	126
714	20190	20303	+	3	4091819	4091931	-	46	5.00E-17	85	114
714	20910	209135	-	3	4096846	4096970	+	58	1.20E-24	87	126
1472	28412	29146	-	3	7083432	7083535	-	54	1.90E-48	88	106
1472	28515	29251	-	3	7083626	7083731	-	60	1.90E-48	89	108
1472	28515	29251	-	3	8389102	8389207	+	47	5.40E-36	86	107
1287	62858	62984	-	3	9349412	9349537	-	41	2.30E-14	83	129
789	9725	9836	+	3	9350367	9350477	-	53	2.70E-21	87	113
1287	63188	63349	-	3	9350402	9350561	-	75	5.10E-34	87	163
2242	2525	2651	+	3	9350423	9350548	-	58	2.40E-24	87	126
1287	64094	64268	-	3	9351247	9351420	-	79	2.20E-45	86	179
2242	2525	2705	-	3	9358177	9358356	-	56	3.80E-23	83	180
789	9725	9836	-	3	9358248	9358358	-	41	4.20E-14	84	113
1287	63189	63344	-	3	9392316	9392470	+	61	8.00E-48	85	157
2242	2525	2663	+	3	9392325	9392462	+	54	6.10E-22	85	138
789	9725	9836	+	3	9392396	9392506	+	45	1.70E-16	85	113
1287	62858	62982	-	3	9394785	9394908	+	45	8.80E-17	84	125
1278	9586	9702	+	3	11502555	11502670	+	36	2.00E-11	83	116
103	4514	4626	-	3	25897273	25897384	-	57	8.00E-24	88	113
103	5481	5615	-	3	25900350	25900483	-	62	4.50E-43	87	134
767	14352	14565	-	3	29024871	29025083	+	102	1.80E-51	87	214

Magnapotho Query				Rice Chromosome				Stats			
Contig	Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
1238	18714	18814	-	3	29479121	29479220	+	76	5.20E-36	94	100
103	4465	4626	+	3	32311011	32311171	+	75	1.20E-34	87	163
103	5481	5615	+	3	32313158	32313291	+	78	5.70E-36	90	134
837	44948	45056	-	3	33946435	33946542	+	45	6.70E-17	85	109
1287	62858	62984	+	3	34385481	34385606	+	60	7.80E-26	87	128
1287	63358	63533	+	3	34388048	34388222	+	71	5.70E-34	85	179
1287	64122	64228	+	3	34388745	34388850	+	36	9.10E-11	83	108
190	17757	17855	-	3	34534979	34535077	-	48	2.10E-18	87	100
1254	63711	63869	+	4	474956	475113	+	58	2.90E-56	84	162
1254	63978	64097	+	4	475223	475341	+	42	2.90E-56	84	122
256	143	254	+	4	23876766	23876875	+	51	2.10E-20	86	111
1902	25590	25695	-	4	23876766	23876870	+	38	1.10E-12	84	106
1902	25596	25695	-	4	23876766	23876864	+	36	1.70E-11	84	100
1169	37524	37679	-	4	29270088	29270242	+	67	7.40E-30	86	159
232	32431	32586	-	4	31744688	31744842	+	83	2.20E-38	88	155
1129	6724	6907	+	4	31744697	31744877	+	79	4.50E-38	86	183
232	32659	32787	-	4	31744715	31744842	+	41	4.10E-122	83	129
232	31906	32613	-	4	31744889	31745595	+	199	4.10E-122	82	715
1472	28406	29251	-	4	31744916	31745130	+	70	3.70E-31	83	218
1129	6724	6907	+	4	31744925	31745105	+	87	6.90E-43	87	183
232	31972	32787	-	4	31744943	31745757	+	234	1.80E-128	82	822
1129	6724	6907	+	4	31745156	31745333	+	92	6.70E-46	88	180
1472	28429	29191	-	4	31745204	31745335	+	66	9.20E-29	87	134
232	32130	32604	-	4	31745354	31745827	+	146	1.20E-90	83	478
1472	28466	29251	-	4	31745372	31745526	+	84	9.20E-44	88	156
1129	6724	6872	+	4	31745380	31745526	+	76	2.90E-36	88	148
1129	6724	6907	+	4	31745608	31745789	+	73	2.40E-33	85	185
232	32622	32787	-	4	31745627	31745791	+	63	1.80E-26	84	167
1472	28393	29191	-	4	31745660	31745827	+	73	6.00E-33	86	169
767	14403	14565	+	5	333703	333864	+	72	4.60E-32	86	164
232	32383	32586	-	5	3513431	3513633	+	61	2.90E-25	82	205
232	32167	32358	-	5	3513431	3513621	+	69	4.80E-30	84	193
1472	28409	29251	-	5	3513431	3513642	+	111	6.70E-64	88	215
1129	6724	6907	+	5	3513439	3513620	+	84	5.90E-40	86	184
232	32593	32784	-	5	3513461	3513651	+	81	3.40E-37	85	193
1285	22135	22267	+	5	5775966	5776097	+	65	8.20E-29	87	133
1441	6072	6180	-	5	6629639	6629746	+	46	1.70E-17	85	110
1129	6724	6878	-	5	8624329	8624467	+	60	1.20E-26	86	140
1472	28409	29160	+	5	8624506	8624626	+	55	3.50E-22	86	123
232	32176	32540	+	5	8624764	8625130	+	76	3.20E-34	80	372
1472	28439	29167	+	5	8624764	8624863	+	49	2.20E-22	87	101
1129	6724	6872	-	5	8624791	8624918	+	57	7.00E-25	86	129
232	31921	32046	+	5	8624968	8625092	+	42	6.10E-14	83	126
1472	28415	29191	+	5	8624971	8625116	+	60	3.60E-25	85	148



Magnapotho Query				Rice Chromosome				Stats			
Contig	Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
1129	6724	6905	-	5	8624989	8625130	+	59	4.50E-26	85	143
103	4507	4626	+	5	20121761	20121879	+	56	3.20E-23	87	120
103	4698	4849	+	5	20122052	20122202	+	65	1.10E-28	86	153
103	4717	4858	+	5	20122072	20122212	+	59	7.00E-25	85	143
103	5481	5615	+	5	20123753	20123886	+	70	7.00E-48	88	134
508	41401	41526	+	5	20952159	20952283	+	39	6.30E-13	83	127
1287	64122	64315	-	5	22516956	22517148	+	70	1.20E-34	84	198
1287	62858	62984	-	5	22519029	22519154	+	43	1.40E-15	83	127
1169	37524	37679	-	5	22653687	22653841	+	67	7.40E-30	86	159
1169	37522	37679	+	5	22820168	22820324	+	69	4.70E-31	86	161
837	44948	45056	+	5	23976507	23976614	+	60	5.40E-26	89	108
232	32200	32586	-	5	24780203	24780588	+	124	3.70E-87	83	392
1129	6724	6864	+	5	24780215	24780349	+	69	2.00E-34	88	137
232	32668	32787	-	5	24780230	24780348	+	48	1.70E-80	85	120
232	32394	32643	-	5	24780374	24780622	+	79	1.70E-80	83	255
1129	6724	6864	+	5	24780453	24780577	+	51	1.10E-23	85	127
232	32394	32787	-	5	24780458	24780850	+	118	1.70E-60	82	398
1472	28415	29167	-	5	24780515	24780636	+	65	5.80E-39	88	125
232	31921	32130	-	5	24780659	24780867	+	56	3.70E-87	82	212
1472	28406	29251	-	5	24780659	24780873	+	90	4.10E-43	85	218
1129	6724	6907	+	5	24780667	24780848	+	83	2.40E-39	86	183
232	32308	32592	-	5	24780881	24781164	+	92	2.00E-63	83	288
1472	28429	29251	-	5	24780887	24781078	+	69	1.50E-30	84	197
232	32394	32751	-	5	24780950	24781306	+	110	1.70E-54	83	358
1129	6724	6907	+	5	24781123	24781304	+	71	3.80E-32	85	183
232	32668	32787	-	5	24781142	24781260	+	38	1.50E-11	83	122
1472	28409	29188	-	5	24781178	24781326	+	71	1.60E-42	87	151
190	17742	17855	+	5	28010943	28011056	+	53	2.00E-21	86	117
1189	16856	16959	-	6	1470529	1470631	+	43	9.80E-16	85	103
289	26103	26357	-	6	4668751	4669004	+	54	9.90E-22	80	258
1558	12945	13046	+	6	5884317	5884417	+	58	7.30E-25	89	102
1558	12945	13046	+	6	5894534	5894634	+	43	9.50E-16	85	103
1558	12945	13046	+	6	5917857	5917957	+	35	6.50E-11	84	103
1189	16856	16959	+	6	8230404	8230506	+	39	2.60E-13	84	103
103	5412	5585	-	6	27876984	27877156	+	86	1.20E-52	87	174
103	4465	4626	-	6	27878673	27878833	+	79	4.60E-37	87	163
1129	6724	6907	-	6	27957912	27958089	+	76	3.80E-35	86	180
232	32431	32640	+	6	27957947	27958155	+	49	8.50E-34	81	213
1472	28415	29182	+	6	27958124	27958260	+	47	2.10E-17	83	139
1129	6724	6907	-	6	27958140	27958317	+	82	9.40E-39	87	178
232	32659	32787	+	6	27958175	27958302	+	42	8.50E-34	83	130
232	32383	32586	-	6	28401587	28401789	+	69	2.40E-105	83	205
232	32167	32358	-	6	28401587	28401777	+	68	1.10E-55	84	192
1472	28409	29251	-	6	28401587	28401798	+	118	7.30E-60	89	214
1129	6724	6907	+	6	28401599	28401776	+	87	9.20E-42	87	179

Magnapothe Query				Rice Chromosome				Stats			
Contig	Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
232	32394	32787	-	6	28401614	28402006	+	143	1.50E-141	84	395
232	32161	32361	-	6	28401812	28402011	+	98	2.40E-105	87	202
1472	28409	29251	-	6	28401815	28402026	+	119	1.80E-60	89	215
1129	6724	6907	+	6	28401823	28402004	+	85	1.50E-40	86	185
232	32383	32787	-	6	28401842	28402245	+	127	4.90E-132	83	407
232	32167	32361	-	6	28402040	28402233	+	84	6.00E-141	86	196
232	31917	32130	-	6	28402043	28402255	+	55	2.10E-102	81	215
1472	28409	29251	-	6	28402043	28402254	+	111	1.10E-55	88	215
1129	6724	6907	+	6	28402051	28402232	+	81	3.80E-38	86	185
232	32383	32787	-	6	28402070	28402473	+	127	4.90E-132	83	407
232	31975	32133	-	6	28402268	28402425	+	54	2.10E-137	84	158
232	32164	32358	-	6	28402271	28402464	+	79	5.50E-138	85	195
1472	28409	29251	-	6	28402271	28402482	+	108	7.00E-54	88	216
1129	6724	6907	+	6	28402279	28402460	+	103	2.10E-51	89	183
232	31975	32133	-	6	28402496	28402653	+	46	1.20E-132	82	158
232	32383	32586	-	6	28402499	28402701	+	88	1.50E-67	86	204
232	32167	32358	-	6	28402499	28402689	+	85	1.50E-141	86	193
1472	28409	29251	-	6	28402499	28402710	+	111	1.10E-55	88	215
1129	6724	6907	+	6	28402507	28402688	+	116	2.90E-59	91	184
232	32431	32787	-	6	28402526	28402881	+	122	1.20E-61	84	358
232	31936	32136	-	6	28402721	28402920	+	60	1.50E-141	83	200
232	32167	32364	-	6	28402721	28402917	+	87	2.90E-116	86	199
1472	28415	29251	-	6	28402727	28402932	+	103	6.90E-51	87	207
1129	6724	6878	+	6	28402735	28402887	+	82	1.20E-41	88	154
232	32358	32592	-	6	28402949	28403182	+	72	5.10E-35	83	236
1472	28394	29251	-	6	28402955	28403181	+	97	2.70E-47	86	229
1129	6724	6907	+	6	28402963	28403144	+	73	2.40E-33	85	185
232	32586	32787	-	6	28402982	28403182	+	74	5.00E-33	84	202
1121	33812	33964	+	7	10798	10949	+	83	1.30E-53	88	155
837	44952	45056	-	7	6808013	6808116	+	53	9.60E-22	88	105
837	44952	45056	-	7	6821385	6821488	+	45	6.70E-17	86	105
232	32593	32714	+	7	18133178	18133297	+	42	3.30E-30	84	122
1472	28409	29151	+	7	18133187	18133297	+	54	2.60E-51	87	114
1472	28514	29251	+	7	18133489	18133595	+	65	2.60E-51	90	109
1169	37524	37679	+	7	21825745	21825899	+	67	7.40E-30	86	159
232	32358	32586	+	8	5073183	5073410	+	84	7.80E-47	84	232
1472	28394	29251	+	8	5073184	5073410	+	83	6.30E-39	84	231
232	31906	32070	+	8	5073187	5073350	+	42	3.40E-21	81	166
1129	6724	6907	-	8	5073221	5073398	+	60	1.60E-25	83	180
1472	28497	29251	+	8	5088188	5088311	+	23	0.0046	80	127
508	41401	41526	+	8	5640822	5640946	+	43	2.50E-15	83	127
1954	14696	14871	-	8	22202223	22202397	+	63	5.90E-38	84	175
1254	63975	64136	-	8	24587485	24587645	+	52	6.50E-27	83	164
1254	63189	63314	-	8	24589134	24589258	+	46	2.20E-17	84	126

Magnapotho Query				Rice Chromosome				Stats			
Contig	Start	End	Ori	Name	Start	End	Ori	Score	E-val	%ID	Length
1491	14983	15083	+	9	3737	3836	+	88	2.80E-44	97	100
2169	4957	5201	+	9	3737	3980	+	185	1.50E-100	94	245
2169	5381	5510	+	9	4166	4294	+	93	1.80E-51	93	129
1491	14983	15083	+	9	11665	11764	+	88	2.80E-44	97	100
2169	4957	5201	+	9	11665	11908	+	185	1.50E-100	94	245
2169	5381	5510	+	9	12094	12222	+	93	1.80E-51	93	129
1491	14983	15083	+	9	19593	19692	+	88	2.80E-44	97	100
2169	4957	5201	+	9	19593	19836	+	185	1.50E-100	94	245
2169	5381	5510	+	9	20022	20150	+	93	1.80E-51	93	129
1491	14983	15083	+	9	27521	27620	+	88	2.80E-44	97	100
2169	4957	5201	+	9	27521	27764	+	185	1.50E-100	94	245
2169	5381	5510	+	9	27950	28078	+	93	1.80E-51	93	129
1491	14983	15083	+	9	35449	35548	+	88	2.80E-44	97	100
2169	4957	5201	+	9	35449	35692	+	185	1.50E-100	94	245
2169	5381	5510	+	9	35878	36006	+	93	1.80E-51	93	129
1169	37524	37679	+	9	15915210	15915364	+	67	7.40E-30	86	159
1472	28514	29251	-	9	16972783	16972889	+	57	2.20E-23	88	109
232	31915	32028	-	9	16973794	16973906	+	41	1.10E-26	84	113
1472	28515	29251	-	9	18663147	18663252	+	51	1.20E-40	87	107
232	32149	32256	-	9	18663867	18663973	+	47	1.80E-28	86	107
1472	28514	29251	-	9	18668398	18668504	+	56	1.30E-43	88	108
232	32580	32712	-	9	18669574	18669704	+	37	2.40E-24	82	133
232	32149	32256	-	9	18669574	18669680	+	35	2.10E-39	83	107
1169	37522	37679	-	9	21911806	21911962	+	69	4.70E-31	86	161
1472	28515	29251	-	9	22692292	22692397	+	60	1.30E-49	89	108
232	32584	32709	-	9	22692496	22692620	+	49	1.60E-31	85	125
1472	28412	29146	-	9	22692496	22692599	+	56	1.30E-49	88	104
232	32356	32478	-	9	22692499	22692620	+	34	1.10E-22	82	122
1121	33815	33964	+	10	65974	66122	+	53	1.70E-26	84	153
1169	37522	37679	+	10	20689841	20689997	-	69	4.60E-31	86	161
767	14385	14635	-	11	3075716	3075965	+	100	5.60E-58	85	252
2242	2525	2678	+	11	4463670	4463822	+	47	9.70E-18	83	155
1287	62858	62982	+	11	28246412	28246535	+	51	2.10E-20	85	127
1287	63130	63344	+	11	28248601	28248814	+	62	5.60E-54	82	214
789	9643	9795	-	11	28248665	28248816	+	48	2.70E-18	83	152
1287	63376	63492	+	11	28248853	28248968	+	62	5.60E-54	88	118
767	14463	14565	+	12	3232550	3232651	+	71	1.90E-44	92	103
767	14352	14565	-	12	27458631	27458843	+	113	1.70E-76	88	213
767	14088	14213	-	12	27458983	27459107	+	49	1.70E-76	85	125