

Supplementary Information

Detection and prevalence of *Rosellinia necatrix* in South African avocado orchards

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Culture no.	ITS nucleotide sequence	Actin nucleotide sequence
ARP-2017-Rn1	<p>aagtaaaagtcgtaacaaggtctccgttggtgaac cagcggaggatcattaagagtctataactcc caaaccatgtgaacataccacgcgtgcctcggc aggtcgcgtctaccccgaagtgcctaccctgt tagggctacccgggtggcgcgggccaacctgcc ggcgcccacgaaactctgttagcattgaattctg aacacataactaataagttaaactttcaacaacgg atctctggttctggcatcgaagaacgcag cgaaatcgataagtaagtgaattgcagaattcagt gaatcatgaaatcttgaacgcacattgcgcc attagtattctagtggtcgcctgttcgagcgtcattt caaccctaaagcccctgttgcctagtgttg gggcctgcagcgcctgctgcagcccctgaagtca gtggcggagtcggtcacactctagacgtagtag atttctcatctgcctatggtgtgcccgtcccctgcc gtaaacacccccctataccaaaggttgacc tcggatcaggtaggaaatcccgtgaacttaagcat atca</p>	<p>tatgtcaaggcggtttcgccggtgatgatgctccccgagctgtttccgtaag ctaccctacctagcctcggcgacggcgccccgctgtacctgccaagat gggctcgttctgtatcgtcaactcattctgacctccgcgcacagcgtcattgt tggctgccccgcatcatgggtaagtttgcacctccatagcgataacct aatcctgcgactggggctgtttattaattgtgctgccttagtatcatgattgta tgggccagaaggactcga</p>
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ARP-2018-Rn20	gaccagcggaggacattaagagttctataactccaaaacccatgtgaacataccacgcgttgccctggcaggctgcgtcctaccccgaagtgccctaccctgttagggcctacccgggtggcgcgggccaacctgccggcggcccacgaaactctgttagcattgaattctgaacacataactaaataagttaaactttcaacaacggatcttggttctggcatcgtgaagaacgcagcgaatgcgataagtaattgaattgcagaattcagtgatcatcgaatcttgaacgcacattgcgccattagtattctagtggcatgcctgttcgagcgtcattcaacccttaagcccctgttgcttagtgggg	atgtgcaaggccggttcgccggtgatgatgctccccgagctgtttccgtaagtaccctacctagcctcggccgacggcgccccgcttgaccttgccaagatggcgctcgttctgtatcgtcaactcattctgacctccgcgcacagcgtcgattgtggtcgtccccgcatcatgggtaagtttgcgcctcccatacgcgataaccataatcctgcgactgggggctgtttattaattgtgcgtcgcttagtatcatgattggtagggccagaggactcgtaa
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<p>ARP-2018-Rn24</p>	<p>tgaggaagtaaaagtcgtaacaaggtctccgttgg gaaccagcggaggatcattaagagtctataact cccaaaaccatgtgaacataccacgcgttcctcg gcaggtcgcgtcctaccccgaagtgcctaccctgt tagggcctaccgggtggcgccggccaaccctgc ggcgcccacgaaactctgttagcattgaattctga acataactaaataagttaaactttcaacaacgga tctctgttctggcatcgaagaacgcagcgaaa tgcgataagtaattgaattgcagaattcagtgatc atcgaatcttgaacgcacattgcgccattagfattct agtgggcatgcctgttcgagcgtcatttcaaccctta agcccctgttcttagtgttggggcctgcagcgcct gctgcagcccctgaagtcagtggcgagtcggtc acacactctagacgtagtagatttctcatctgcctat ggtgtgccgggtcccctgccgtaaacacccccct ataccaaaggtgacctcgatcaggtaggataacc cgctgaacttaagcatatcaa</p>	<p>atgtcaaggcgggttcgccggatgatgctccccgagctgtttccgtaag tctaccctacctagcctcgcccagcggcggccccgttgacctgccaagat gcggctcgttctgatcgtcaactcattctgacctccgcgcacagcgtcgattgt tggctgccccgcatcatgggtaagtttgcgccctccatacgcgataacat aatcctgcgactggggctgtttattaattgtgcgtcgcttagtatcatgattgta tgggccagaggactcgta</p>
<p>ARP-2018-Rn25</p>	<p>aggaagtaaaagtcgtaacaaggtctccgttgg accagcggaggatcattaagagtctataactcc caaaaccatgtgaacataccacgcgttcctcggc aggtcgcgtcctaccccgaagtgcctaccctgta gggctaccgggtggcgccggccaaccctgcgg cggcccacgaaactctgttagcattgaattctgaac acataactaaataagttaaactttcaacaacggatct cttggttctggcatcgaagaacgcagcgaaatg cgataagtaattgaattgcagaattcagtgatcatc gaatcttgaacgcacattgcgccattagattctag tgggcatgcctgttcgagcgtcatttcaaccctaa cccctgttcttagtgttggggcctgcagcgcctgc tcagcccctgaagtcagtggcgagtcggtcac acactctagacgtagtagatttctcatctgcctatgg ttgtgccgggtcccctgccgtaaacacccccctata ccaaaggtgacctcgatcaggtaggataaccg ctgaacttaagcatatcaata</p>	<p>atgtcaaggcgggttcgccggatgatgctccccgagctgtttccgtaag tctaccctacctagcctcgcccagcggcggccccgttgacctgccaagat gcggctcgttctgatcgtcaactcattctgacctccgcgcacagcgtcgattgt tggctgccccgcatcatgggtaagtttgcgccctccatacgcgataacat aatcctgcgactggggctgtttattaattgtgcgtcgcttagtatcatgattgta tgggccagaggact</p>
<p>ARP-2018-Rn26</p>	<p>gaggaagtaaaagtcgtaacaaggtctccgttgg aaccagcggaggatcattaagagtctataactc caaaaccatgtgaacataccacgcgttcctcgg caggtcgcgtcctaccccgaagtgcctaccctgtt agggcctaccgggtggcgccggccaaccctgccg gcggcccacgaaactctgttagcattgaattctgaa cacataactaaataagttaaactttcaacaacggat cttctgttctggcatcgaagaacgcagcgaaat gcgataagtaattgaattgcagaattcagtgatca tcgaatcttgaacgcacattgcgccattagattctta tgggcatgcctgttcgagcgtcatttcaacccttaa</p>	<p>tatgtcaaggcgggttcgccggatgatgctccccgagctgtttccgtaag tctaccctacctagcctcgcccagcggcggccccgttgacctgccaagat gcggctcgttctgatcgtcaactcattctgacctccgcgcacagcgtcgattgt tggctgccccgcatcatgggtaagtttgcgccctccatacgcgataacca taatcctgcgactggggctgtttattaattgtgcgtcgcttagtatcatgattggt atgggccaggtgactgtaa</p>

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ARP-2018- Rn27	attaagagttctataactccaaaacccatgtgaac ataccacgcgtgacctcggcaggtcgcgtcctacc cgaagtgcctaccctgtagggcctaccggggtgg cgcgggccaacctcggcgggcccacgaactct gttagcattgaattctgaacacataactaaataagta aaacttcaacaacggatctctgttctgcatcga gaagaacgcagcgaatgcgataagtaagtgaatt gcagaattcagtgatcgcgaatcttgaacgcaca ttgcgccattagattctagtgggcatcctgtcga gcgtcattcaacccttaagcccctgttgcttagtgg	tatgtcaaggccggcttcggcggtgatgatgctccccgagctgtttccgtaa gtctaccctacctagcctcggcgacggcgccccgctgtaccttgccaag atggcgctcgttctgatcgtcaactcattctgacctccgcgacagcgtcgatt gttgctcgtccccgcatcatgggtaagttgcgccctccatagcgataacc ataatcctgcgactggggcgtgtttattaattgtcgtcgcttagtatcatgattgg tatggccagaggactcgtaa
ARP-2018- Rn28	cattaagagttctataactccaaaacccatgtgaa cataccacgcgtgacctcggcaggtcgcgtcctacc ccgaagtgcctaccctgtagggcctaccgggtgg ggcgggccaacctcggcgggcccacgaactc gttttagcattgaattctgaacacataactaaataagta aaaacttcaacaacggatctctgttctgcatcga tgaagaacgcagcgaatgcgataagtaagtgaat tcgagaattcagtgatcgcgaatcttgaacgcac attgcgccattagattctagtgggcatcctgttcg agcgtcattcaacccttaagcccctgttgcttagtgg	ttatgtcaaggccggcttcggcggtgatgatgctccccgagctgtttccgtaa gtctaccctacctagcctcggcgacggcgccccgctgtaccttgccaag atggcgctcgttctgatcgtcaactcattctgacctccgcgacagcgtcgatt gttgctcgtccccgcatcatgggtaagttgcgccctccatagcgataacc ataatcctgcgactggggcgtgtttattaattgtcgtcgctgaaatcatgattgg tatggccagaaggactcgtaa
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ARP-2018- Rn30	ccagcggaggatcattaagagttctataactccc aaaacccatgtgaacataccacgcgtgacctcggca ggtcgcgtcctaccggaaagtgcctaccctgttag ggcctaccgggtggcgcgggccaacctcggcg ggcccacgaaactctgttagcattgaattctgaaca cataactaaataagtaaaacttcaacaacggatctc ttggtctgcatcgaatgaagaacgcagcgaatgc gataagtaagtgaattgcagaattcagtgatcgc gaatcttgaacgcacattgcgccattagattctag tggcatgctgttcgagcgtcattcaacccttaag cccctgttgcttagtggggcctgcagcgctgc	atgtcaaggccggcttcggcggtgatgatgctccccgagctgtttccgtaa taccctacctagcctcggcgacggcgccccgctgtaccttgccaagatg cgctcgttctgatcgtcaactcattctgacctccgcgacagcgtcgattgt ggctcgtccccgcatcatgggtaagttgcgccctccatagcgataaccata atcctgcgactggggcgtgtttattaattgtcgtcgcttagtatcatgattggtat ggccagaggactcgtaa
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ARP-2018- Rn32	ccagcggaggatcattaaagagtctataactccc aaaaccatgtgaacataccacgcgttgccctggca ggtcgcgtctaccccgaagtgccctaccctgttag ggctaccgggtggcgcgggccaacctgccggc ggccacgaaactctgtttagcattgaattctgaaca cataactaataagttaaaactttcaacaacggatctc ttggttctggcatcgatgaagaacgcagcgaatgc gataagtaatgtgaattgcagaattcagtgatcatc gaatctttgaacgcacattgcgccattagtattctag tgggcatgcctgttcgagcgtcattcaacccttaag cccctgttgcttagtggg	atgtgcaaggccggttccgggtgatgatgctccccgagctgtttccgtaagt ctaccctacctagcctcggcgacggcgccccgctgtacctgccaagat gcggctcgttctgtatcgtcaactcattctgacctccgcgcacagcgtcgattgt tggctgtccccgtcatcatgggtaagtttgcgcctccatacgcgataaccat aatcctgcgactgggggctgtttattaattgtgcgtccttagtatcatgattgga tgggccagaggactgtaa
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ARP-2018- Rn35	accagcggaggatcattaaagagtctataactcc caaaaccatgtgaacataccacgcgttgccctggc aggctcgcgtctaccccgaagtgcctaccctgtta ggcctaccgggtggcgcgggccaacctgccggc cgccccacgaaactctgtttagcattgaattctgaac acataactaataagttaaaactttcaacaacggatct cttggttctggcatcgatgaagaacgcagcgaatg cgataagtaatgtgaattgcagaattcagtgatcatc gaatctttgaacgcacattgcgccattagtattctag tgggcatgcctgttcgagcgtcattcaacccttaag cccctgttgcttagtggg	atgtgcaaggccggttccgggtgatgatgctccccgagctgtttccgtaagt taccctacctagcctcggcgacggcgccccgctgtacctgccaagatg cggctcgttctgtatcgtcaactcattctgacctccgcgcacagcgtcgattgt tggctgtccccgtcatcatgggtaagtttgcgcctccatacgcgataaccat aatcctgcgactgggggctgtttattaattgtgcgtccttagtatcatgattgga tgggccagaggactgtaa
ARP-2018- Rn36	gaagtaaaagtcgtaacaaggtctccgttgggtaac cagcggaggatcattaaagagtctataactccca aaaccatgtgaacataccacgcgttgccctggcag gtcgcgtctaccccgaagtgcctaccctgttagg	tatgtgcaaggccggttccgggtgatgatgctccccgagctgtttccgtaagt taccctacctagcctcggcgacggcgccccgctgtacctgccaagatg cggctcgttctgtatcgtcaactcattctgacctccgcgcacagcgtcgattgt tggctgtccccgtcatcatgggtaagtttgcgcctccatacgcgataaccat aatcctgcgactgggggctgtttattaattgtgcgtccttagtatcatgattgga tgggccagaggactgtaa

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<p>ARP-2018- Rn38</p>	<p>gaggaaagtaaaagtcgaacaaggctccggtggg aaccagcggaggatcattaaagattctataactc ccaaaaccatgtgaacataccacgcgttgccctgg caggtcgcgctcctaccggaagtgcctaccctgtt agggcctaccgggtgggcgcgggccaacctgccg gggcccacgaacctctgttagcattgaattctgaa cacataactaaataagttaaaactttcaacaacggat ctcttggttctggcatcgcgatgaagaacgcagcga atgcgataagtaattggaattgcagaattcagtgaaatc tcgaatctttgaacgcacattgcgccattagtattct gtggcatgcctgttcgagcgtcattcaacccttaa gccccctgttgcttagtggtggggcctgcagcgcct gctgcagccccctgaagtcagtgccggagtcggtc acacactctagacgtagtagatttctcatctgcctat ggtgtgcccgtcccctgccgtaaacacccccct ataccaaggttgacctggatcaggtaggaatacc cgctgaacttaagcatatcaa</p>	<p>tatgtcaaggccggtttcgccggatgatgctccccgagctgtttccgtaag tctaccctacctagcctcgcccagcggcgccccgcttgatcttccaagat gcggctcgttctgtatcgtcaactcattctgacctccgcgcacagcgtcgattgt tggctgccccgcatcatgggtaagtttgcgccctccatacgcgataaccat aatcctgcgactgggggctgtttattaattgtgcgctgcttagtatcatgattgga tgggccagagtactgtaa</p>
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<p>ARP-2020- Rn56</p>	<p>tttggtataggggggtgttttacggcaggggaccg gcacaacatagggcagatgagaaatctactacgtc tagagtgtgtgaccactccgactgacttcgagg ggctgcagcaggcgtcgcagggccccaactaa gcaacaggggcttaagggtgaaatgacgctcga caggcatgccactagaataactaatgggcgaatgt gcgttcaaagattcgaatgactgaattctgcaatt cacattactatcgcatttcgctgcttctcatcga ccagaaccaagagatccgttgaagttttaactta tttagttatgtttcagaattcaatgctaacaacagagttc gtggccgcccggcaggttgcccgcgccaccgg gtaggccctaacagggtagggcacttcgggtagg acgcgacctgccgaggcaacgcgtggtatgttac atgggtttgggagttatagaactcttaatgatccctc cgctggttccaacaggagacctgttacgactttac ttcctc</p>	<p>tttccgggtgatgatgctccccagctgtttccgtaagtctaccctacctagc ctgcccgacggcgccccgctgtacttccaagatcgggctcgttctgtat cgtcaactcattctgacctccgcgacagcgtcgattgttggctcggcctcat catgggtaagtttgcctcccatagcgcgataaccataatcctgcgactggg ggctgtttattaattgtcgtcgttagtatcatgattggtatgggcca</p>
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