

**Supplementary Table 1a: RNA sample sequencing quality metrics**

Sample	Quality control results of RNA			TruSeq stranded mRNA library quality control				Raw RNA data				
	Conc. (ng/ul)	Total amount	RIN	Conc. (ng/ul)	Conc. (nM)	Insert size (bp)	Total Bases	Read Count	GC (%)	AT (%)	Q20 (%)	Q30 (%)
FA1A	55,5	4,606	8,5	10,42	43,56	368,0	6 225 154 594	61 635 194	39,92	60,08	98,10	94,43
FA2A	70,283	5,833	8,9	18,80	83,36	347,0	6 034 971 594	59 752 194	39,75	60,26	98,15	94,43
FA3A	121,439	9,837	9	9,44	36,86	394,0	6 325 320 940	62 626 940	39,11	60,89	97,94	93,89
MA1A	176,564	14,125	9,2	14,50	65,06	343,0	6 472 863 356	64 087 756	39,23	60,77	98,21	94,57
MA2A	328,028	26,242	8,7	15,12	68,80	338,0	6 668 422 788	66 023 988	39,19	60,81	98,15	94,45
MA3A	58,239	3,067	9,2	7,10	33,73	324,0	5 424 214 292	53 705 092	40,07	59,93	98,03	94,23
FA1H	65,885	5,403	8,3	27,66	117,54	362,0	6 040 089 062	59 802 862	40,53	59,47	97,03	92,01
FA2H	69,12	5,53	8,5	16,39	73,10	345,0	6 030 754 238	59 710 438	40,58	59,43	98,21	94,64
FA3H	64,701	5,241	8,7	16,55	74,68	341,0	6 705 697 242	66 393 042	40,51	59,49	98,23	94,61
MA1H	68,11	5,721	8,8	19,17	83,77	352,0	6 124 472 744	60 638 344	41,87	58,13	98,37	95,12
MA2H	134,541	10,091	9,1	32,95	143,22	354,0	7 805 077 798	77 277 998	41,25	58,75	98,51	95,32
MA3H	64,104	5,192	9,1	18,80	80,34	360,0	8 871 248 140	87 834 140	43,44	56,56	98,44	95,21
FA1L	92,23	6,364	8,8	11,16	52,04	330,0	5 187 772 080	51 364 080	42,30	57,70	97,96	94,15
FA2L	76,359	6,338	9,2	16,51	76,51	332,0	6 173 748 422	61 126 222	41,81	58,19	98,06	94,37
FA3L	90,233	7,399	9	12,74	56,97	344,0	5 297 140 536	52 446 936	42,24	57,76	97,82	93,88
MA1L	119,01	9,521	9,2	21,98	93,42	362,0	9 030 718 656	89 413 056	42,11	57,89	98,56	95,55
MA2L	193,046	13,899	9,3	31,01	129,98	367,0	8 115 862 676	80 355 076	41,51	58,49	98,46	95,23
MA3L	71,002	5,68	9,3	8,92	38,34	358,0	5 515 451 834	54 608 434	41,42	58,58	98,27	94,84
FA1W	56,001	4,312	8,6	5,51	23,24	365,0	7 430 363 354	73 567 954	41,21	58,79	98,42	95,23
FA2W	54,853	4,333	8,5	5,49	22,69	372,0	7 731 350 626	76 548 026	41,81	58,19	98,30	94,92
FA3W	51,651	4,132	8,5	11,54	50,45	352,0	7 026 221 550	69 566 550	41,90	58,10	98,47	95,22
MA1W	57,838	4,222	9,2	8,42	38,19	339,0	6 155 538 324	60 945 924	40,63	59,37	97,91	94,03
MA2W	63,506	4,953	9	10,28	46,52	340,0	6 218 520 510	61 569 510	40,69	59,32	97,67	93,44
MA3W	57,418	4,708	9,1	3,82	17,55	335,0	6 133 307 820	60 725 820	43,55	56,45	98,20	94,65
FA1O	29,839	2,447	8,5	15,55	70,80	338,0	7 522 029 338	74 475 538	42,19	57,81	98,47	95,25
FA2O	54,41	4,462	8,9	17,97	78,99	350,0	8 868 659 712	87 808 512	42,40	57,60	98,43	95,14
FA3O	28,869	2,338	8,4	12,88	61,52	322,0	6 014 575 250	59 550 250	42,28	57,72	98,36	95,12
FA1B	128,119	9,481	9	15,57	70,27	341,0	6 012 916 830	59 533 830	41,84	58,16	98,11	94,45
FA2B	128,279	10,006	9,1	2,93	13,46	335,0	5 869 219 686	58 111 086	41,38	58,62	97,96	94,31
FA3B	165,082	11,721	8,9	14,25	63,16	347,0	5 812 165 190	57 546 190	41,01	58,99	98,07	94,35
MA1B	86,068	5,508	9,2	17,82	79,69	344,0	5 968 890 728	59 097 928	41,20	58,80	98,06	94,31
MA2B	79,406	6,432	9	14,55	64,69	346,0	6 595 699 556	65 303 956	40,56	59,44	98,08	94,31
MA3B	66,261	5,433	9,1	12,44	53,16	360,0	6 690 928 214	66 246 814	38,88	61,13	98,03	94,17
FP1H	70,494	5,287	9,1	23,98	99,97	369,0	7 555 538 108	74 807 308	39,30	60,70	98,46	95,19
FP2H	69,848	5,658	9,3	19,81	81,70	373,0	7 153 322 172	70 824 972	38,91	61,09	98,49	95,26
FP3H	68,656	5,698	8,9	11,46	48,99	360,0	7 169 968 790	70 989 790	41,53	58,47	98,29	94,89
MP1H	74,983	6,299	8,4	9,71	40,48	369,0	6 417 889 258	63 543 458	41,67	58,33	98,38	95,11
MP2H	74,438	5,979	8,9	11,64	48,52	369,0	7 081 532 786	70 114 186	41,06	58,94	98,40	95,11
MP3H	74,31	6,019	8	6,69	29,93	344,0	8 657 557 592	85 718 392	42,93	57,07	98,39	95,16
FP1B	94,527	6,522	8,2	18,69	73,73	390,0	8 305 985 682	82 237 482	32,79	67,22	98,52	95,20
FP2B	90,635	9,154	6,1	4,80	19,69	375,0	7 029 462 438	69 598 638	33,97	66,03	98,38	94,87
FP3B	167,057	13,03	8,6	17,17	74,42	355,0	6 311 649 580	62 491 580	35,83	64,17	98,43	95,08
MP1B	91,628	6,231	8	10,05	44,07	351,0	7 231 000 262	71 594 062	38,93	61,07	98,53	95,41
MP2B	132,753	10,753	8,4	12,52	54,40	354,0	7 330 262 254	72 576 854	38,63	61,37	98,45	95,15
MP3B	88,463	5,927	7,6	11,84	46,97	388,0	6 541 546 790	64 767 790	36,94	63,06	98,47	95,17

Supplementary Table 1b: RNA sequencing library information

Sex	Body Part	Replicate	Library ID	Reads	Size (bp)	
Adult female wasps (25 individuals)	Antennae	Rep1	FA2A_1.fastq.gz	3081707	35	
			FA2A_2.fastq.gz	3081707	35	
		Rep2	FA2A_3.fastq.gz	2987007	34	
			FA2A_4.fastq.gz	2987007	34	
		Rep3	FA2A_5.fastq.gz	1131149	38	
			FA2A_6.fastq.gz	1131149	38	
	Heads	Rep1	FA2H_1.fastq.gz	2950413	36	
			FA2H_2.fastq.gz	2950413	36	
		Rep2	FA2H_3.fastq.gz	2985513	35	
			FA2H_4.fastq.gz	2985513	35	
		Rep3	FA2H_5.fastq.gz	3119651	35	
			FA2H_6.fastq.gz	3119651	35	
	Wings	Rep1	FA2W_1.fastq.gz	3079377	37	
			FA2W_2.fastq.gz	3079377	37	
		Rep2	FA2W_3.fastq.gz	3079651	36	
			FA2W_4.fastq.gz	3079651	36	
		Rep3	FA2W_5.fastq.gz	3079275	35	
			FA2W_6.fastq.gz	3079275	35	
	Legs	Rep1	FA2L_1.fastq.gz	2560249	41	
			FA2L_2.fastq.gz	2560249	41	
		Rep2	FA2L_3.fastq.gz	3054111	41	
			FA2L_4.fastq.gz	3054111	41	
		Rep3	FA2L_5.fastq.gz	3022349	42	
			FA2L_6.fastq.gz	3022349	42	
Ovipositors	Rep1	FA2O_1.fastq.gz	3029767	35		
		FA2O_2.fastq.gz	3029767	35		
	Rep2	FA2O_3.fastq.gz	4396275	40		
		FA2O_4.fastq.gz	4396275	40		
	Rep3	FA2O_5.fastq.gz	2879123	41		
		FA2O_6.fastq.gz	2879123	41		
Bodies	Rep1	FA2B_1.fastq.gz	2974811	41		
		FA2B_2.fastq.gz	2974811	41		
	Rep2	FA2B_3.fastq.gz	2974651	41		
		FA2B_4.fastq.gz	2974651	41		
	Rep3	FA2B_5.fastq.gz	2955511	42		
		FA2B_6.fastq.gz	2955511	42		
Adult male wasps (22 individuals)	Antennae	Rep1	MA2A_1.fastq.gz	2077907	34	
			MA2A_2.fastq.gz	2077907	34	
		Rep2	MA2A_3.fastq.gz	3054871	35	
			MA2A_4.fastq.gz	3054871	35	
		Rep3	MA2A_5.fastq.gz	3201394	38	
			MA2A_6.fastq.gz	3201394	38	
	Heads	Rep1	MA2H_1.fastq.gz	2982513	35	
			MA2H_2.fastq.gz	2982513	35	
		Rep2	MA2H_3.fastq.gz	3021377	41	
			MA2H_4.fastq.gz	3021377	42	
		Rep3	MA2H_5.fastq.gz	3003899	41	
			MA2H_6.fastq.gz	3003899	41	
	Wings	Rep1	MA2W_1.fastq.gz	2987007	34	
			MA2W_2.fastq.gz	2987007	34	
		Rep2	MA2W_3.fastq.gz	4391707	40	
			MA2W_4.fastq.gz	4391707	40	
		Rep3	MA2W_5.fastq.gz	3067967	36	
			MA2W_6.fastq.gz	3067967	36	
	Legs	Rep1	MA2L_1.fastq.gz	2974811	41	
			MA2L_2.fastq.gz	2974811	41	
		Rep2	MA2L_3.fastq.gz	3054111	41	
			MA2L_4.fastq.gz	3054111	41	
		Rep3	MA2L_5.fastq.gz	3022349	42	
			MA2L_6.fastq.gz	3022349	42	
Bodies	Rep1	MA2B_1.fastq.gz	4470659	41		
		MA2B_2.fastq.gz	4470659	41		
	Rep2	MA2B_3.fastq.gz	4079651	38		
		MA2B_4.fastq.gz	4079651	38		
	Rep3	MA2B_5.fastq.gz	2759023	35		
		MA2B_6.fastq.gz	2759023	35		
Female pupae	Head, antennae and mouth parts	Rep1	FP2A_1.fastq.gz	2544884	38	
			FP2A_2.fastq.gz	2544884	38	
		Rep2	FP2A_3.fastq.gz	3544884	41	
			FP2A_4.fastq.gz	3544884	41	
		Rep3	FP2A_5.fastq.gz	3144884	38	
			FP2A_6.fastq.gz	3144884	38	
	Rest of wasp (bodies, legs, wings)	Rep1	FP2B_1.fastq.gz	4111871	41	
			FP2B_2.fastq.gz	4111871	41	
		Rep2	FP2B_3.fastq.gz	3479551	38	
			FP2B_4.fastq.gz	3479551	38	
		Rep3	FP2B_5.fastq.gz	3024871	34	
			FP2B_6.fastq.gz	3024871	34	
	Male pupae	Head, antennae and mouth parts	Rep1	MP2A_1.fastq.gz	4111871	41
				MP2A_2.fastq.gz	4111871	41
			Rep2	MP2A_3.fastq.gz	3024871	34
				MP2A_4.fastq.gz	3024871	34
			Rep3	MP2A_5.fastq.gz	3177771	40
				MP2A_6.fastq.gz	3177771	40
		Rest of wasp (bodies, legs, wings)	Rep1	MP2B_1.fastq.gz	3024871	34
				MP2B_2.fastq.gz	3024871	34
			Rep2	MP2B_3.fastq.gz	3024871	34
				MP2B_4.fastq.gz	3024871	34
			Rep3	MP2B_5.fastq.gz	3177771	40
				MP2B_6.fastq.gz	3177771	40