Table S1 Primer sequences used for quantitative real-time PCR of genes differentially expressed in antennae of drone and worker honeybees of *Apis mellifera ligustica* and *Apis cerana cerana*

Accession Number	No.	Protein Name	Primer Sense 5'-3' / Antisense 5'-3'	Product Size (bp)	Annealing Temperature (℃)
gil58585146		***Argk***	ACCACAACGATGATAAGACCTTC	195	56.2
			CCAAGTTAGTCGGGCAGAAAG		56.2
gil66550890		***Pglym78***	AAAGACATGGCGATTAAATGAAC	133	53.9
			CATAGGTGGAGGAGGTGTATC		53.9
gil66556287		***vha26***	TGTTACTATTCGTGTCCGTCAAG	174	56.2
			CGTCCTTTAGCCGCAAATAAATC		56.5
gil66505480		***scs-fp***	GGTGTTTAGCGGCGTGAATG	132	57.2
			ATAATGGTGTCCTCCTCGTTCTC		57.3
gil66499429		***MCAD***	TGGAGCAGTTGGTTTAGC	199	51.2
			TGTAGTTGTTGGAAGTTGATG		51.3
gil48100966		***Blw***	TGCTCTTCCTCCAATTCTTAATG	200	54.2
			TGCGTCCCAATGTCTCAG		53.4
gil66534655		***GstS1***	GATACCAAAGTTCCCTTGCTTCTG	129	57.7
			GTCGGTCAAAGATTCCTCTATTGC		57.6
gil48095525		***βTub56D***	CTACCTTCATCGGCAACTC	129	52.2
			ACTCCATCTCGTCCATACC		52.3
gil94158822		***Obp14***	GCGTTGGTGCTCTGACAATC	115	56.9
			TTGCCTTCAATAACGTCATTTGC		56.5
gil94158718		***Obp21***	ATCGTGATTATTTCTGCTATTTGC	112	54.1
			CATCAATGCCACTATCTATCCTAC		54.4
gil94158709		***Obp16***	TGCTATTTGCGTTTGCGTTGG	96	58.2
			CTAGTGCCAGTTTCGCCTACG		58.4
gil66518848		***EfTuM***	GGCAGAAGCGAAAGACTATG	200	53.7
			CGGCAACAACGAGAATAGC		53.9
AB023025		***actin***	TGCCAACACTGTCCTTTCTG	156	55.8
			AGAATTGACCCACCAATCCA		56.2