

Table S4. Primer pairs of array probes

Gene	FlybaseID	5' PRIMER	3' PRIMER
<i>Gr2a</i>	FBgn0027796	GGACACGCTGAGAGCTCTGG	CGCACGAGCTGAGTGGCG
<i>Gr5a/Tre</i>	FBgn0003747	GTGCAATCGTGCTGTTCG	GATGCTCAGCAGGTGTTTC
<i>Gr8a</i>	FBgn0030108	CGTGTGGCTGACGTATCT	CGTATCGGCTGATGCAGG
<i>Gr10a</i>	FBgn0045502	GAGCCACCGCCTCCAGCTC	CTTCAAGTTCTGCCTGATC
<i>Gr10b</i>	FBgn0030297	GGTCGCTGTAGGTGTCGTGC	CTACAATCCCCTCGGCGG
<i>Gr21a</i>	FBgn0041250	GGTAGTGCCGATGCTGAA	CAGGAGAAGACGCACAGCG
<i>Gr22a</i>	FBgn0045501	CGGTCAGGATCTACGCTA	GATCCTGGGTCTTAGGAC
<i>Gr22b</i>	FBgn0045500	GGACACCGACATGGTAGTGC	GGATCCTGGCTACTCGGT
<i>Gr22c</i>	FBgn0045499	GTTGCCAGGCAGTCCGTAG	CATCACGTAGCGAATTGCAG
<i>Gr22d</i>	FBgn0045498	GGCAGTCGTAGCAATCGG	CCAGTCTCCTTATTCTGATG
<i>Gr22e</i>	FBgn0045497	GGATGCTATCGACCTGTTC	GTCCATCCGCTCAGACTC
<i>Gr22f</i>	FBgn0041249	CTTGAGGAGCTTAGATGG	GACCCCTACGCATCCTG
<i>Gr23a</i>	FBgn0041248	GGTGACGACGTCATGGA	CGCAGTAGCAGTCCAAT
<i>Gr28a</i>	FBgn0041247	GAGGTAGCACGTGGCAGC	CGTACTCACATCGCCTAC
<i>Gr28b</i>	FBgn0045495	CGAATGCTGCTGCAGAGG	GGACGTGCAACTCCAGAC
<i>Gr32a</i>	FBgn0041246	CGTGCAAGGCGAGATCAC	CTCCTTCGACTTGGCATA
<i>Gr33a</i>	FBgn0032416	CACGTGTCGGTCATCTCGC	GCAGCATAGTCGAAGCAC
<i>Gr36a</i>	FBgn0045487	GCTCAAGACAGAGGTGCG	GCAGCAGATGAATGCGA
<i>Gr36b</i>	FBgn0045486	GTGGATGCATTGGACCG	CTCCAGTCGAATGTCCAAG
<i>Gr36c</i>	FBgn0045485	GGCTTGCACTACTGGATG	GGCTTCTTCGAGGCGGAC
<i>Gr39a</i>	FBgn0041244	GCAGATCAGCCGTGTCTCG	CTAAGTAGGCTTGAAGG
<i>Gr39b</i>	FBgn0041245	CCATCAGATGACACTCTAG	CCTTTCATCCGTACCTC
<i>Gr43a</i>	FBgn0041243	CGGAGAAGTCAGCATCTAC	CAATGCAACCAAGTGCCATC
<i>Gr47a</i>	FBgn0041242	CAGCTTGCACTTCTCAGA	CTGCGATGGTAGCAGTCT
<i>Gr47b</i>	FBgn0041241	GATGCGCTCAGTTGCTCGGT	GGCAGATAACGTACAG
<i>Gr57a</i>	FBgn0041240	CGAACTGGATGAGTATGAGC	GCTGCAGCAACTGCTACAGC
<i>Gr58a</i>	FBgn0041239	CTACTGACCGTCTGCCCT	CTTCTCGGACTAATCGCTG
<i>Gr58b</i>	FBgn0041238	GATGCTGCTATTGCTGTAC	CCTTAGAGCCATCGCTGT
<i>Gr58c</i>	FBgn0041237	CGTGGTGGCTCTGACCAA	CAGTGGAAAGATGTCAACG
<i>Gr59a</i>	FBgn0045483	GCAGTCGCGGATTACTCG	CTCCAAGTCCATCAGATTG
<i>Gr59b</i>	FBgn0045482	CGTGACGCTCATCATGTTGC	GCTGTCTTGGTGAGGCAG
<i>Gr59c</i>	FBgn0041235	GAGTGATCACTGAGCTTAG	GGTGCAGGTGATTGGGCT
<i>Gr59d</i>	FBgn0041236	GATCACGAGCAGGTTATTCC	GGAGCTGGTCAGTCGATG
<i>Gr59e</i>	FBgn0041233	CTGCAGACCTCCAACCTCG	GACGTGGTCAACTATGAC
<i>Gr59f</i>	FBgn0041234	GAGTTGGATGATTCTGTGG	GAGCAGTAGGATGGAGTA
<i>Gr61a</i>	FBgn0035167	GGTGGACATTTCTGATGCT	GATCAGCGAGTACCAGAAG
<i>Gr63a</i>	FBgn0035468	GGTCAACTTGCTCAGTCG	CACATTGTGCGCTCCCTG
<i>Gr64a</i>	FBgn0045479	CGAATCTGGAGGAGAACGG	CTCCAGTAGCTCGACATC
<i>Gr64b</i>	FBgn0045478	CTGGCATGGAGTGGAGCA	CAGCGAATCCTAAGGAGT
<i>Gr64c</i>	FBgn0045477	GCTCTGATCCTGTTCGTC	CGAATCCTCTGCCAGAAT
<i>Gr64d</i>	FBgn0035486	GCTGAGGAGCCATTGTGC	GGTATACAGCTGAAGGCC
<i>Gr64e</i>	FBgn0045476	CATGATCACCATCGTGGC	GTGGTCGCTTGGACTCATC
<i>Gr64f</i>	FBgn0052255	GCTGGTCTTGATAGTGGC	CTCAGCAACTGGACGAA
<i>Gr65a</i>	FBgn0041232	GGATCTATTGAGGACACT	GTAGTGCTCATTGCCACG
<i>Gr66a</i>	FBgn0035870	CTCAGGTAGATGAGGTAC	GAGGAACTGGTGGACACG
<i>Gr68a</i>	FBgn0041231	GAGCAACCTCATAGAGGT	GATAGGTAGTAACAGCCG
<i>Gr77a</i>	FBgn0045474	GATCATCCTTGAGTATCTG	CTCAGCTCGGATACATT
<i>Gr85a</i>	FBgn0045473	CAGCGACAGCCATTTCGAT	CCATGAACTACCTGCTGT
<i>Gr92a</i>	FBgn0045471	CGTGTGGCTGACGTATCT	GCCAATCAAGGCAATTAGT
<i>Gr93a</i>	FBgn0041229	GTGGCGCTGCATTGTGGT	CACACTCGTCCAACCTCAT
<i>Gr93b</i>	FBgn0045470	GCAGAATGGCGTGGTAGGAA	GCTGTCTGATCTGCAGCG
<i>Gr93c</i>	FBgn0045469	CATTCTGGAACCTACTGACC	CTGGTCTACGAACTGTAC
<i>Gr93d</i>	FBgn0045468	GCGTCTGCGATACACGAT	GGAGTTCTCTATGCTGAG
<i>Gr94a</i>	FBgn0041225	GCACCACCTCTGTACAG	CCACCGTTATTCCGAGCA
<i>Gr97a</i>	FBgn0041224	CCTCGTTGATGTAGTGAT	CAACTATGTGACCCAATG
<i>Gr98a</i>	FBgn0039520	GCACCATCGACCTGAGCA	GTGCTCAACTCTGCTGAG
<i>Gr98b</i>	FBgn0046887	GATGGTACTTGATGACTG	GAGCTTGAAGCATGTCTT
<i>Gr98c</i>	FBgn0046886	CGACTCCGACTGACGCTT	CAGCTGTAGGCAAGCATC
<i>Gr98d</i>	FBgn0046885	GCCTGTGGATAGTGTTC	GAATGCAGAACTCGCTGT
<i>Obp8a</i>	FBgn0030103	GGAGATCACAGATCGGTT	GCTATGTCACAATAGCTAG
<i>Obp18a</i>	FBgn0030985	CTGTGATGAAGCCCATTTG	GCATAGCTGTACTATGGA
<i>Obp19a</i>	FBgn0031109	GGTCTGGAGTCTGGAATC	CACCTGTTCCGAATGCCA
<i>Obp19b</i>	FBgn0031110	GATGCAGTGCAGCCGAATG	GGAGAACATGCAATGGTG
<i>Obp19c</i>	FBgn0031111	GCTGGCGACTGATGACTGG	GAAGCCATCCACTCCAGT

Obp19d/Pbprp2	FBgn0011280	CCAGAGCTGTTGATCGAT	CCTGTTGATCTCCTCGTG
Obp22a	FBgn0043539	GTGGCACATGTCGGTTG	GCGAGTGTGCTGGCTTT
Obp28a/Pbprp5	FBgn0011283	CCTCGCAGTGATCATCCG	CACCGACCTAGCATCATG
Obp46a	FBgn0033508	GCGCTTGGTGGGACAGTG	GTGCTCCCAACTGTTTCGC
Obp47a	FBgn0033573	CGAGTTCTAGTGCTATTGC	GCCACGAATCGCGTGGCA
Obp47b	FBgn0033614	GCTCAAGATCACGATAACG	GCCAAGCCACGATTGATTG
Obp49a	FBgn0050052	CATGTCAGTGCACTGCTG	CGCAGCTATTACTGCTCG
Obp50a	FBgn0050067	CAAGCGAGCATACGCACA	GGCGTATACTTGTGCTT
Obp50b	FBgn0050073	GTCTTCGGTGCTGCATCT	GTGCAACTTGACAGCAAT
Obp50c	FBgn0050072	CCTGCTGATCTGCTCATT	GCGATGACTAGAACCCAG
Obp50d	FBgn0050074	GCTTCAACAAGCTGACTTG	GCGAATGCTGTATTCCCT
Obp50e	FBgn0033931	GGAACGGAACATGAGGCA	GGAATGTTCGTTGGCGTC
Obp51a	FBgn0043530	CACCAAGTAACCGAGCTC	GCTGTCACTACGCTGTCA
Obp56a	FBgn0034468	CTCAACATGAACCTCTAC	CCCGAATCACAATTGCGC
Obp56b	FBgn0046880	GTACACAGGTGGCGGCTGA	CTTATCTACTTGTGTGTTG
Obp56c	FBgn0046879	GACTTAGCGGTGGTCATT	GTTCCAGATCCGCCAAATG
Obp56d	FBgn0034470	CGGGATTTGGCGCTTAG	GCAGGATGGCACTTGCTG
Obp56e	FBgn0034471	CAGCAGATTACGATCAGC	GCACGCCATTGTTGGGAAG
Obp56f	FBgn0043533	TGCTATCTGGCTCCAAGC	GCTTGGTAATGGACTGAT
Obp56g	FBgn0034474	GGCAGTGTACAGGCATT	GGCTACATTGCGATTGAC
Obp56h	FBgn0034475	CCGGACTTTGCCAAATA	CTGGAATGGCACTTGTGCT
Obp56i	FBgn0043532	CACCTGCTGTGCATTATTG	CCTCTGTGATTTGAGTT
Obp57a	FBgn0043535	GGAAGCCCAACCCTTTGA	AAACAGATCCGCCTGCTG
Obp57b	FBgn0043534	GTTTCATCTACAGCTTGT	GCACACATCACCAGTCTA
Obp57c	FBgn0034509	GAGGTGCTACTGTGCTAG	GACCTCATGCTGCTGCTC
Obp57d	FBgn0043536	TCTTGCCTTAAACAATTGAA	ATTGCCGATTCTAACGATCC
Obp57e	FBgn0050145	CGCAAGCTTCACATCCTTG	CCAACCTTACACTGTGTTTG
Obp58b	FBgn0034768	GGACTCGTGGCTGTCCGA	CAGCACATCCTTGCACTT
Obp58c	FBgn0034769	GGCACTTCTTGCTGAAGG	GATTGCGAGAATACGGAG
Obp58d	FBgn0034770	GGAGCTTCTCTAATTCTGG	CGCACATATCCTTAGTTCC
Obp59a/Obp58a	FBgn0034766	GCAACTGTATGCATCGCC	GAAGAGCATGTTGCCGTG
Obp69a/Pbprp1	FBgn0011279	GCTGCGAATGCGATGCTT	GCTCTTGGGAATCGTGGA
Obp76a/lush	FBgn0020277	CATCATTTCGGGGGAAC	GGCGTCGAGTGTGTTAC
Obp83a/Pbprp3/Os-F	FBgn0011281	CATGCACAACTCGCCTAC	CCTTGTCGCTGCTCAGCG
Obp83b/Os-E	FBgn0010403	GTAGTGGACAGGATCAGC	CAAATACCCACTGATACTAC
Obp83cd	FBgn0046878	CGAACGTCCTAGAACGATT	GCGTAGCAGGTGAAGTGT
Obp83ef	FBgn0046876	CTACTGCTCTTCGTTGTCC	CGGTATTTCATCTTGGACG
Obp83g	FBgn0046875	CCTGTAAGCGGTACAGTG	CACATTTCGCACTTGAGCC
Obp84a/Pbprp4	FBgn0011282	GATAAGTCCGAGATGTGAC	GAGCTTGTGCTGTCAATTG
Obp85a	FBgn0037589	GCTCGCATTTCGATACG	CCCTGGGTGCGTGGTATT
Obp93a	FBgn0038859	CCACATCGCTGTGCAATC	CTGCGATCACGCCAAAGCA
Obp99a	FBgn0039678	GTCTTCGCTCGATCGCTG	GAATCGAGAAGGAATGCT
Obp99b	FBgn0039685	GACAAGCGATCAGATGGT	CATACATCAGCATGAAGG
Obp99c	FBgn0039682	CATCATGCACTGGTGTCC	CTCAGTTCAGAACCTCAAC
Obp99d	FBgn0039684	GAATCACTTGAGACTGGAG	GACTCATGAAGTCCTTGAC
Or1a	FBgn0029521	GATGCACGGACTACAGAT	CCACAAATGCGATCTCCA
Or2a	FBgn0023523	CAGTGCTGTGTACTACCAC	CGTGACGAGGCAGAGAAAC
Or7a	FBgn0030016	CACTGGCACTGGAAGATG	GCTATGCCATCTACTCCT
Or9a	FBgn0030204	CATCATGATGTACGACACG	GCACCTCTGCGTGGACTCG
Or10a	FBgn0030298	GCTGAACGAGTCGACGTT	CACCCCTTCAATATGACTA
Or13a	FBgn0030715	CGTGGTACGTCATTGCAT	CTGCGATTTCGTTGGTGA
Or19a	FBgn0041626	CAGCAGAGTAAGCATGGT	CACTTGTCTCTCAATCTGA
Or19b	FBgn0062565	CCTTCCACATCTGCATCT	CTGGTGGTTCGTGGATGTA
Or22a	FBgn0026398	CTCGAGATTGGAGTCAAC	GACCCAGTACAGTACCAG
Or22b	FBgn0026397	GAGACAGGAGGCTAAGATG	CTGCATAGATACGCAGGAC
Or22c	FBgn0026396	CCATCTGCTCTTCGTGTT	CCTGCGAATGTCTGCTG
Or23a	FBgn0026395	GGTACTGGAGTTGGTTCGA	GCAGTTGACCAGATCCTG
Or24a	FBgn0026394	GCACAAGTGTAGACCACA	CACTGGCAACGCAACTAAC
Or30a	FBgn0032096	GAGTAGCACTCTGAAGCTA	GCAACACTCGACACATGA
Or33a	FBgn0026392	CAAGTCTTCAGGAGTCTG	GTTGGCTAAGATTGTAAAG
Or33b	FBgn0026391	GGATGTCTGCAAGGGTCT	GTGATCCTCGATGCTTTCG
Or33c	FBgn0026390	GGATCTGCATGCGATTGC	GACCACAAATGGACATGTC
Or35a	FBgn0028946	GTGCTGTCATCGAAGTGA	CAAGAGGGACTTGCAGTTG
Or42a	FBgn0033041	GTAGGAAGTACATGAGTG	GCGATCTTCAATTGGAAGG
Or42b	FBgn0033043	CTTATGTTGCTGCTCATGG	CTGGCAGCTGTACAATCC
Or43a	FBgn0026389	GAGTTCCTGCCTCGTACC	GTGCGTGTCTGTGTATCG
Or43b	FBgn0026393	CTGCAGGAAGTGGATGAC	CTGGACGGACTACTGCAC
Or45a	FBgn0033404	CTCATCTGTCCTTGATC	CTCCGCCATTGAGATCCT
Or45b	FBgn0033422	CGTGGCTTCACCTCTTGT	GGCGTACACAGTGACCTG
Or46a	FBgn0026388	CTACTGCTATCAGTGTCTG	CAAGGTCGAGTGAAGCGG

Or47a	FBgn0026386	CTGCTGTGAGCTTGGATAC	CATTGTGATGTAGGACATCG
Or47b	FBgn0026385	CTGGTGGAAGCGAACCAC	TACATGCATTTGCGTTGC
Or49a	FBgn0033727	GCTATCTGCTTGTGCGAG	GCTTGAGACGCACATCAT
Or49b	FBgn0028963	GAGTACGAGAGTCCGTAC	CCCTCATCATCATGAACA
Or56a	FBgn0034473	CCATCTCCTCCACTCGCT	GCATCGATTTGGCTTAGCTG
Or59a	FBgn0026384	GAAGTACATCCGTGCCAT	GGATGTGCTGGAGATGGA
Or59b	FBgn0034865	CGATCAGCATGTTGCAGG	CGACAGCGATCGCGAGAGG
Or59c	FBgn0034866	CGATGATCCTGAATGCAG	GCTCGGACTGAGCCTCAC
Or63a	FBgn0035382	GCGTGAGTAGCTTGGCAT	GTGACCTCATAAGTCCCA
Or65a	FBgn0041625	GTCAATCTGGGACGAGATC	GGTTGCAGCGATCTGTAAAG
Or65b	FBgn0041624	GTGATCAGCGATCTGGAC	GTCCCTCCGAGCCTCCAC
Or65c	FBgn0041623	CGTATCGTTCTCTTGGC	GCACACAAGCCAAGTCAG
Or67a	FBgn0036009	TGGATAACGTCGCGGAAA	CAACCAGGAGTCGCGAAA
Or67b	FBgn0036019	GTAGAGCAGCATGCAGATC	GGAACTGCTGAGCTCAGT
Or67c	FBgn0036078	GATACGACATGCTGATGAC	CTGGATCATGTACTGGGA
Or67d	FBgn0036080	GAAGCGAATCCGATTACAT	AGCCGCAAAAGGTGTAGAGA
Or69a	FBgn0041622	CGTAGCAGCATCATCAG	CTCGAACTCACAGCGTTG
Or71a	FBgn0036474	CTGTTGCTTGAGTCGCTG	CAGCATACCGCCGATGTC
Or74a	FBgn0036709	CTCGAGTTCAGTTGGATG	GGTGCTCAACTTCTGGGT
Or82a	FBgn0041621	CCGATAGTACCGCACTCA	GCAACAACGACGACAGTG
Or83a	FBgn0037322	CAGTGCGAACATCCTTCA	GTGGCCTGCATATGGTGC
Or83b	FBgn0037324	CACGATCTGGACGAAGGT	CTCGCTGGACACCTACAG
Or83c	FBgn0037399	CCACTCAACTCATACCAG	CTACGTAGTCACGTACATG
Or85a	FBgn0037576	GCAGCCTTATGCAATCGTG	CGCAATCGCTGCTCAGCT
Or85b	FBgn0037590	CGAAGCAGATGACGAACG	GGAAGCAGTCACGCGTT
Or85c	FBgn0037591	GACGATAGCGAATGTCAG	GTGCTGCTGTTCTGTCAA
Or85d	FBgn0037594	CCTACGATCACAAGTACAG	CATGTCAGCTGCTAGCTG
Or85f	FBgn0037685	GTGCAGTACAGCTACGAG	GATGCTGATGTAGATCCA
Or88a	FBgn0038203	CAGCATGGTGAACGCATC	GTCCCTGCATCACATTGA
Or92a	FBgn0038798	GCAGTTCGGTCTCACAGT	CACGAGCGATGCGGCAAT
Or94a	FBgn0039033	CTATCGCTTCCTGCTCCA	GAAGATGGCACGCAACTGC
Or94b	FBgn0039034	GTACTGCACCTTCCACTG	GGTCTGGCTTTCTCTTCG
Or98a	FBgn0039551	CGAGACAGCACTTATGCT	GTCAATCTGTGAGCTATG
Or98b	FBgn0039582	GCAGCATCTGCTGCATTG	GGCAATCTGGAATAGGGC
Os9/Hf	FBgn0014000	CATGTTGATCAGACAGTC	GTACTTCGAGGAGCTCGA
smi21F/Pino	FBgn0016926	GAGCACTATGCACATTAG	GTTGTGACGCGTTGAGTC
a5	FBgn0011294	GGATAACGACGAGAATGTC	CACTACTCACTGACACCA
a10	FBgn0011293	GAAGCTTCTCTGCAGTTT	GCATACGATCGATTTCGAA
Act5C	FBgn0000042	GTTGCTGCTCTGGTTGTC	GGTCAGGATCTTCATCAG
Gapdh1	FBgn0001091	CTCCTCGACCTTAGCCTT	CAGAAGATCACCGTGTTT
Gal4	/	TGACGAGCAAGGTCTTCG	GCCAAGGGTGTTCTTCA
LacZ	/	CGATCGCGTCACACTACG	CCGTGGCCTGATTTCATT