

Table S1 The primers used in the RT-PCR and qRT-PCR for identification of putative chemosensory genes in *O. formosanus*

Primer (For qRT-PCR)	Primer sequences (5' to 3')
<i>OforCSP1-F</i>	TGCAGCAAATGTTCTCCTAGC
<i>OforCSP1-R</i>	GCTTTCTTCCCGTCAGGATCG
<i>OforOBP1-F</i>	AAGGCGATGATGAAAATGCTGC
<i>OforOBP1-R</i>	GCCTTTCATGGCTCCTAGAAT
<i>OforOBP2-F</i>	TTACTTCTATTGATTGTTGTGGC
<i>OforOBP2-R</i>	TTCTCCTGGCACTTTGCTTG
<i>OforOR1-F</i>	TTCAATTCAATCTTCACAGGCTACG
<i>OforOR1-R</i>	TAAATTTGCTAGGCGTTCTAAGTCAG
<i>OforOR2-F</i>	ATGCTACGTTTCGTGGTATCCC
<i>OforOR2-R</i>	AGCCAGAAATAGCCACAGGAT
<i>OforGR1-F</i>	GACAGAGTGGCACTATCAGGAATG
<i>OforGR1-R</i>	GCAGAAAGGGACACCGAAACTA
<i>OforGR2-F</i>	ACATCTTACGGTTATCCAAGGAA
<i>OforGR2-R</i>	GCCATGAGGTGTTTCGGCTGT
<i>OforSNMP1-F</i>	GGTTTCCCGTCTCTAATCCG
<i>OforSNMP1-R</i>	GTCCATTGGATTTGTTATATTGAA
<i>OforSNMP2-F</i>	GGGATGACCATCTTCGTGCTA
<i>OforSNMP2-R</i>	CCAAATTTCCCTTCTCTCAGC
Actin gene	
<i>β-Actin-F</i>	GGTCTCTTATCTGCTCTATCA
<i>β-Actin-R</i>	TCTGCTATACTTCCTTCCTG

Table S2. The Blastp match of *O. formosanus* of identified chemosensory protein genes with *Drosophila* (genus) on FlyBase BLAST tool using annotated proteins (AA) database

Gene Name	ORF (aa)	FlyBase Blastp Match						
		Description	Species	ID	Score	E-value	Identities (%)	Positives (%)
<i>OforOBP1</i>	106	Obp83a-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0311427	40.0466	0.000414628	37.5	54.2
<i>OforOBP2</i>	155	Obp56d-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0311727	44.2838	4.68988e-05	23.8	42.7
<i>OforOBP3</i>	139	Obp83a-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0311427	68.5514	1.99131e-12	28	54.2
<i>OforOBP4</i>	138	Obp28a-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0076996	47.7506	3.49948e-06	39	59.3
<i>OforOBP5</i>	146	Obp19a-PC	<i>Drosophila melanogaster</i> (Dmel)	FBpp0297995	63.5438	5.9664e-11	29	55.9
<i>OforOBP6</i>	72	Obp19a-PC	<i>Drosophila melanogaster</i> (Dmel)	FBpp0297995	35.8094	0.00851655	26.2	53.8
<i>OforOBP7</i>	160	Obp56g-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0089127	42.3578	0.000206394	31.7	52.5
<i>OforOBP8</i>	170	Obp56e-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0309474	40.4318	0.000806394	26.9	46.3
<i>OforOBP9</i>	210	CG17994-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0085345	31.9574	0.431517	39.6	54.2
<i>OforOBP10</i>	144	Obp56c-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0089321	37.7354	0.00371322	23.5	40.9
<i>OforOBP11</i>	151	lush-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0290704	55.0694	2.86563e-08	37.8	59.5
<i>OforOBP12</i>	146	Obp19a-PC	<i>Drosophila melanogaster</i> (Dmel)	FBpp0297995	63.5438	6.64997e-11	27.4	47.3
<i>OforOBP13</i>	58	Obp99b-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0305400	26.9498	4.33555	31	58.6
<i>OforCSP1</i>	52	EbpIII-PC	<i>Drosophila melanogaster</i> (Dmel)	FBpp0309999	42.743	6.57797e-05	43.2	64.9
<i>OforOR1</i>	307	Or13a-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0073938	44.669	0.000112595	23.9	39.7
<i>OforOR2</i>	346	Orco-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0112105	433.335	1.61449e-121	62	73.1
<i>OforOR3</i>	417	Or2a-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0070381	75.0998	1.50253e-13	24.5	45.6
<i>OforOR4</i>	111	Orco-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0112105	60.4622	3.01364e-10	34.1	60
<i>OforOR5</i>	479	Or85d-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0081361	80.4925	4.19937e-15	28.2	55
<i>OforOR6</i>	413	Or49b-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0086894	65.4698	1.13664e-10	22.8	41.1
<i>OforOR7</i>	286	Or49b-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0086894	73.1738	2.97715e-13	23.5	47.1
<i>OforOR8</i>	110	Or43a-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0088122	68.9366	8.70296e-13	38.7	69.3
<i>OforOR9</i>	275	Or2a-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0070381	80.4925	1.75329e-15	25.2	47.7
<i>OforOR10</i>	174	Or49b-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0086894	77.0258	8.98236e-15	24.4	53.6
<i>OforOR11</i>	121	Or92a-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0083295	60.077	4.48833e-10	25.2	52.3
<i>OforOR12</i>	124	Or85f-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0081506	57.7658	2.4431e-09	33.3	64.3

<i>OforOR13</i>	96	Or92a-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0083295	43.8986	3.42232e-05	20.7	52.2
<i>OforOR14</i>	80	KCNQ-PD	<i>Drosophila melanogaster</i> (Dmel)	FBpp0289111	29.6462	0.56352	25	50
<i>OforOR15</i>	157	Or43a-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0088122	65.855	1.54244e-11	26.2	48.1
<i>OforGR1</i>	273	Gr64f-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0073057	177.563	1.19045e-44	38	60.1
<i>OforGR2</i>	290	Gr64a-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0073050	164.851	7.50108e-41	35.6	56.2
<i>OforGR3</i>	308	Gr64f-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0073057	214.157	1.23227e-55	39.5	60.2
<i>OforGR4</i>	348	Gr28b-PE	<i>Drosophila melanogaster</i> (Dmel)	FBpp0089143	46.595	4.39474e-05	26.1	51.3
<i>OforGR5</i>	248	Gr63a-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0113004	140.584	1.17536e-33	37.3	58.3
<i>OforGR6</i>	116	Gr28a-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0079087	78.5666	1.22593e-15	45.6	65.6
<i>OforGR7</i>	82	Gr23a-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0077386	41.2022	0.000194491	53.5	65.1
<i>OforGR8</i>	117	Gr5a-PA	<i>Drosophila melanogaster</i> (Dmel)	FBpp0070768	43.5134	4.66392e-05	31.1	62.3
<i>OforGR9</i>	59	Gr63a-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0113004	35.8094	0.00822236	42.1	63.2
<i>OforSNMP1</i>	496	Snmp1-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0306056	359.762	2.98055e-99	39.3	60.5
<i>OforSNMP2</i>	515	Snmp1-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0306056	354.369	1.42787e-97	36.6	60.9
<i>OforSNMP3</i>	190	Snmp2-PB	<i>Drosophila melanogaster</i> (Dmel)	FBpp0110185	92.8189	1.90631e-19	30.6	52.3
<i>OforSNMP4</i>	118	Snmp2-PD	<i>Drosophila melanogaster</i> (Dmel)	FBpp0306711	86.6557	4.33878e-18	35.6	56.8

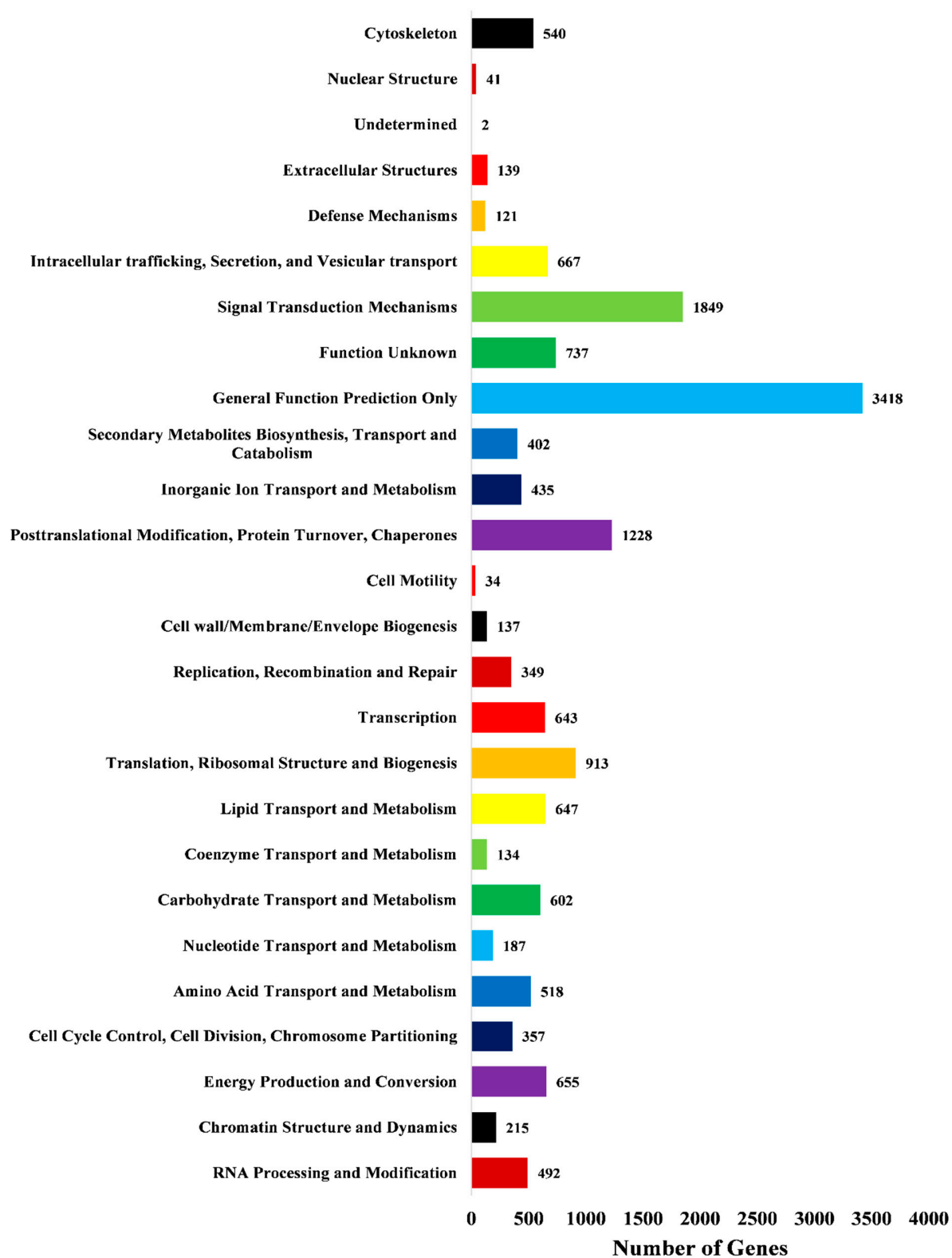
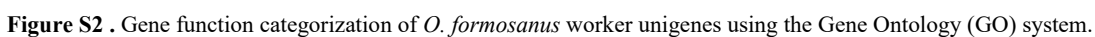


Figure S1. KOG annotation of unigenes in the *O. formosanus* workers.



OfrOBP1	.....AFLVPTAFVI FCVASVNAADSRFDG. LDENQKAAKALRDTCLKESGS.....EEGLI LGANK	62
OfrOBP2	.....AKLI RHLKLLLI VVANVWCTADSACNENVGEAQKQCEHGI TDETFLENRDKEM LEDESNEESHK	92
OfrOBP3	.....AQLLLAATVI FFVQPAFAGSPLDK. LDDDTKAAKALHDTCTVDTGV.....QESLI ESARHGDSE	62
OfrOBP4	.....ARSGLSLI FLFATAHGI LGESTQS.....FKDAVSLAQECMPQVGATEDDFQTVI HNRRLATRTAK	84
OfrOBP5	.....NDRSAI VFVFLLLLGAFLRESFAGPSQAQLKQALKI VFNI CQPKSGATTADI DGI RKG	90
OfrOBP6	.....NALLRCLVI LVSSQLLVANAVPASNAKVDKEI ANKCNESNPI DQAYLDELNATG. SFPDENVRPAK	15
OfrOBP7	.....MAFAKI LFI SLGVSCYLSTAVPTSCHSAVEVVKFCQCLTGI SDAEVEVLQKTDI AN. NESI	89
OfrOBP8	.....MINLQLLVI FI FSAAAVTGFQLRSSLDGSRSEDLLNSGSRTI LSFNRRDTHDELAHSAENCCNAKHQKTI	85
OfrOBP9	.....M RI LFI LGAALCLTGVSF. SDEPPAAFQKQCTEHGI PDLQS. I ANPRSMTLNDVNEAGRCFVECLAREFQI	100
OfrOBP10	.....AKTVKPAVAI LLLLGADLAVGLTGRAFERAKEVDEKCFNENQVERAYFEKFI KARI BEI DPPNN. YKCFI	84
OfrOBP11	.....NAGSAI NYVMTI LATVLLGTSDAL. TNDQVRQAAMAFNTCLTKI GVSAENVDAALNGQYDPGDRKAKCYTKC.	91
OfrOBP12	.....ANSVLNRQLTVVENA	89
OfrOBP13	.....	16
Consensus	.....c.....g.....d	
OfrOBP1	DKLKAYNACTFQQVGAVST.....KI LPI CRYVVQ...I.....PAKMSI LKLWYSI	106
OfrOBP2	NI AKPLLESABERGREVNEEG.....LKTDI ETCTVQSPQ.....GE	155
OfrOBP3	ENFKAYLGCYVLQTGALNENGEADYDTI I GMLPEVLEDRGGKMLNKRHI KE...N.....SAPATAFELN	139
OfrOBP4	DHI NPI NDRLYGFRFETVNR.....AQVVENCNEVNGRD.....TDT	138
OfrOBP5	AGLENLKKLPEELREPLKKG.....VTECRKADEGSK.....SGREAAVKV	146
OfrOBP6	AAI KQAKNLLSGETRDSVI N.....SNEKCFNAGDGI E.....DT	72
OfrOBP7	KLKDVFKHHQESVNVKADLEN.....FVDACI TKNADV.....CQ	158
OfrOBP8	VAVEFSKRAFADGLKFDEANFR.....KGVTDKNTTGD.....GK	154
OfrOBP9	NETACFLDCI LRKSNALDGGGQI I AGAATEALAQYPPFKDQSLLDKVTTCANLPVNGGGLGETVVCNQAAMQFV	200
OfrOBP10	EEVNNVQFARSQGKEFDVN.....KLKSSLTACNQGGG.....CK	144
OfrOBP11	EELQNVPEI VEEGHRI VK.....ACQDTPG...K.....DL	151
OfrOBP12	GSI SNAKANLPSGI AERNVA.....SI EKCRGEVDKYE.....DD	146
OfrOBP13	GGFKCFLHCLYYRYNVNDE.....EGGFLFNNAKALATTRLDDLT.	58
Consensus	.....c.....c.....kc	
OfrOBP1	.....	106
OfrOBP2	.....	155
OfrOBP3	.....	139
OfrOBP4	.....	138
OfrOBP5	.....	146
OfrOBP6	.....	72
OfrOBP7	GY.....	160
OfrOBP8	GTKVTLVQSSISADA	169
OfrOBP9	FVEEVKAQKQ.....	210
OfrOBP10	.....	144
OfrOBP11	.....	151
OfrOBP12	.....	146
OfrOBP13	.....	58
Consensus	.....

Figure S3. The multiple sequence alignment of *O. formosanus* putative OBPs. There is a 20.01% amino acid similarity between all the putative OBPs. Sea green and pink, highlights are applied to the same residues, signifying 80% and 90%, similarity, respectively.

[illegible]

Figure S4. The multiple sequence alignment of *O. formosanus* putative ORs. There is a 18.65% amino acid similarity between all the putative ORs. Sea green and pink, highlights are applied to the same residues, signifying 80% and 90%, similarity, respectively.

OforGR1	.....NTVI VLTGALVEHALSKASGI NTA VACTINI I NAFRIYYFTKTGT YDQNF A	50
OforGR2	.....ALTSYGYPPNFGRCKLCAAALLTASTAEHLMA NYSRLLSALPDSAGGLDI I RVFFVTV. FEQVFK	65
OforGR3	NTFYGI AAATLVLF LKLARGVPQLLVQVSTLEQAQRRIYGTPTRI LRFKI RCVTAAALLGATVEHVLSDYITVSSI AQDNSTSSVLRRIYALKT. HHHLEFQ	98
OforGR4	.....AFVWAPHCVTGETGCRLLQTSGFDI LYSI VFI AVSTFLVNYYSNI VNI TNVFSI CNVSEKVI AFSVI LQFVLS	73
OforGR5	.....NRLI VVLI NVTCVREI LYQALESN. LSNYL V	30
OforGR6	.....	0
OforGR7	.....	0
OforGR8	.....	0
OforGR9	.....	0
Consensus	.....	0
OforGR1	VMDYSLTTAI LTLI TNFI ATFTVNFADLFI I LVSLALSERFR LFNEYI DSVRRKLAPES FVSQAREEYNSLSHLTRIL. DSCI SKI VLVSFASNI YFI CR	149
OforGR2	VINYALVKAVLLQLSNFVATFTVSYNDFVTLVSNAL TQKYLQ LHERITTVSGKTVSLKFVREARQLYVDLCCLTRMV. DHHI SHI VLLCLI SDLYFI CL	164
OforGR3	YLGYSHACAF LATI AHIVATFTVT FNDLFI AI TSI ALTERFRLLNRHLQAVRGKTLSECFVKQIRENYTSLTHLTETL. NL CI SHI VLMSFASNI YFI CL	197
OforGR4	AFVCLLKRHTI ANI ANQLAGLNASLKRS CACVKKVCI I LASHLSI SLSVASCFSLDLFSRMGPNNRVSI TFNAMTSACFLTEFQI VCFNLMLKQLI S	173
OforGR5	LMTYVYQTLVRDITLGLAVYLLCYLLRSTAQH LATS FQKDVDTAARPSI VI ARYNALVLCFSRVVRQTGVAACTYTG. . . YVVLVLF LMASTVS L YGLLS	125
OforGR6	.....	0
OforGR7	.....	0
OforGR8	.....NAKQTHVEVRRVLR.	14
OforGR9	.....	0
Consensus	.....1 f 1	0
OforGR1	QLLSSLSPL. ....DGLVDTVVFCVSFGFLFRITVTL SLYASRI YDESLLPRVLYDVPPESYKI EVSRFLDQI VTRDVALSGMNFYI TRILLT	240
OforGR2	QLFNSLKKV. ....KTL YGVVFFYFSGYLLFRACLACFCAAF LNEASKKPAVL YTVPSVSINTEVERFI DQVTINEVALTGLRFVT LNRRLVLT	255
OforGR3	QLLYSLRGL. ....ADVYSRVVFFYFSGFLLVRTVTVSLAI ASI NDESRLPKSVLFAVPSDGYNAEVSRLQLVTTSQVALTGLNFFSVTRPALLT	288
OforGR4	DINDSI RDLGRI KCKNCNPCSCSQMLP LNSTTPAFVSSAYEKLQCNNTINSDSHRTKVI FVRDI QDSLCAASETLNSAYSFLLLYTSAKNI CLTHSI YFI	273
OforGR5	TLTKGFHLR. ....LVVLVGDSI I TGTETLVI I CDGANSVTREVG LRFQGRLLDI RQTPLCNKTEKVDALRTI ELRPPEI SFGDVI VNRGALLS	216
OforGR6	.....MAVSI HVHS. . NVVSYLCKMSRR LAKRTAVLVHRLISKARDPETKVELELPSLQLLHRKVRFTACGFPLDFTLLYS	76
OforGR7	.....MGHI STVLRKLLAFHTDPATLSELEHFLQHVALRKFKFTVFGELTLDLSLLVS	54
OforGR8	PRDAVHQT. ....PGRVGHKDAPVNTETDEV RVQTADVTINLPDVRDAEDKSI RDTAVAYPDAQSFHRAI SAI VVLGQCGLLPVHGVTASSAQG	104
OforGR9	.....NSNNRPVI SVLGVVTI NKGTVKS	23
Consensus	1 k l e f f 11	
OforGR1	FTTDCST. ....DGVL L L V FVI. ....CTSTHSFGVPFC SKYQ.	273
OforGR2	VI GSI MT. ....YELL L VQ CED. ....VQDFGSEEP LNASTVING.	290
OforGR3	MAGTI AT. ....TEV L VQ FSH. ....MEN.	308
OforGR4	LLRLFI TGSNTCDVGSPSYSHYVFLHYSI KLVVLV FYSSSAI QQCNRITAVLVHKLI TKTQDPGLREELRFLSLQ	347
OforGR5	LGSMAVT. ....ILAVELQLGI AG. ....TSDCNDAA NATTS.	248
OforGR6	I VGAVTI. ....ILN L I QFQLTFATGSRFATNTSLSPNTTMI S.	116
OforGR7	TGAVVT. ....ILN L I QFQL. ....ASNS. STACTKM.	82
OforGR8	LSTAANE. ....VYCTLT.	117
OforGR9	YASTLV. ....IM V L L Q F SAG. ....QHKPENNCNVLCNTTEIN.	59
Consensus	t y v l qf	

Figure S5. The multiple sequence alignment of *O. formosanus* putative GRs. There is a 21.36% amino acid similarity between all the putative GRs. Sea green and pink, highlights are applied to the same residues, signifying 80% and 90%, similarity, respectively.

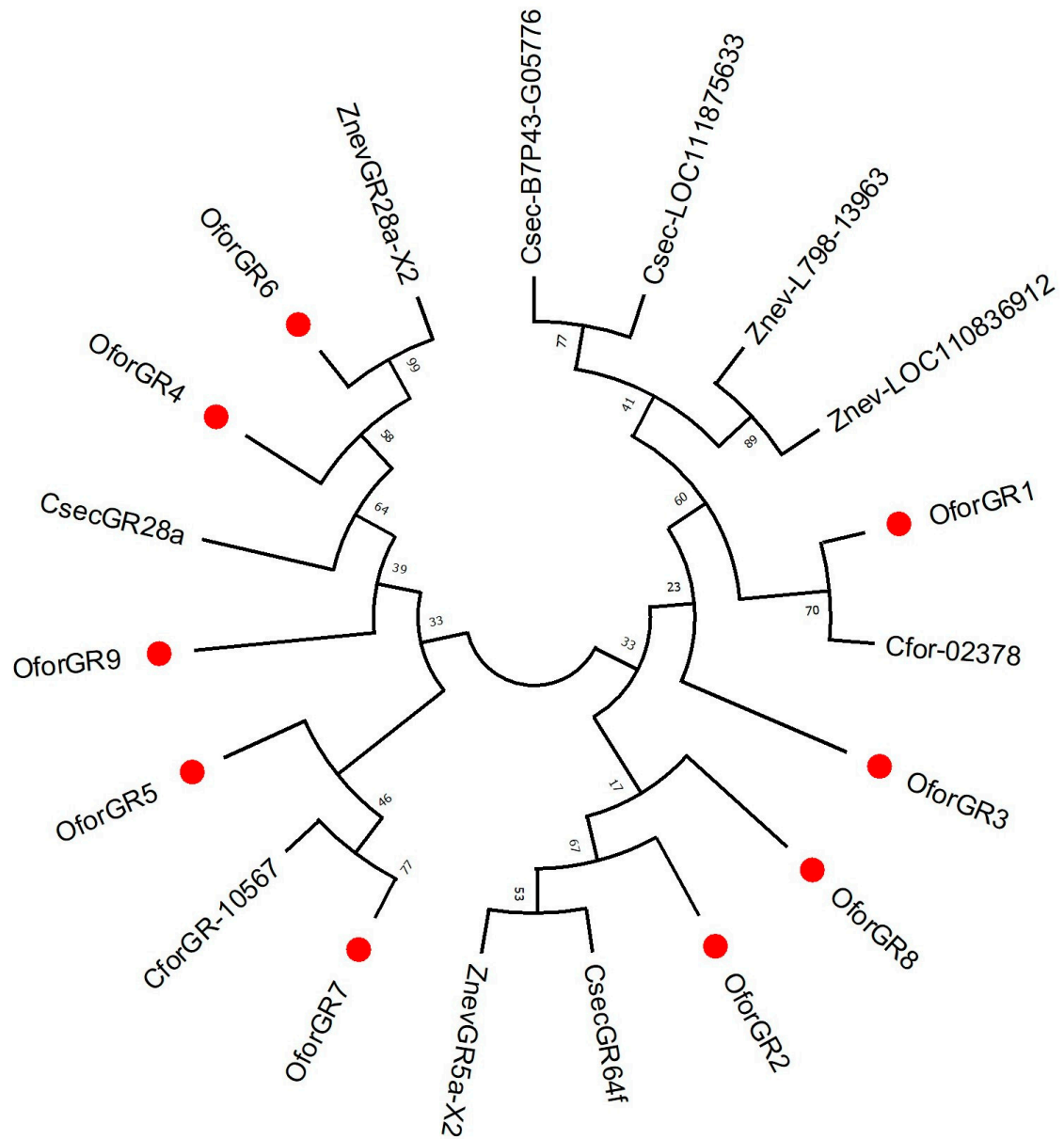


Figure S6. Phylogenetic tree of identified GRs with the GRs from different insect species. The identified GRs are marked red.

The percentages of bootstrap is shown in black color. The phylogenetic tree of 9 putative *OforGRs* was constructed by using the sequences from the insect species are; *Cryptotermes secundus*, *Zootermopsis nevadensis* and *Coptotermes formosanus*. GenBank accession number for all GRs genes are; Csec-B7P43-G05776; PN40292.1, Znev-L798-13963; KDR11637.1, Cfor-02378; GFG38492.1, Csec-LOC111875633; XP_033606047.1, Znev-LOC110836912; XP_021934317.1, CsecGR64f; XP_023711366.1, ZnevGR5a-X2; XP_021936907.1, CsecGR28a; XP_023704213.2, ZnevGR28a-X2; XP_021920101.1, CforGR-10567; GFG40019.1.

OforSNMP1	.....MFLGSGVGFYGFPSLI RSQI ASNLALKKGSDLKLSKI PDGI DFKI YAFNI INPADVQAGKKPI VTEI GPYFVEEYKE	80
OforSNMP2	AKKVSLEFQSSVVLVLSGMTI FVLGAVLGVIQFPA LI RSQI TANLELKEGAEFEI NERVPIPADFAI ELFNVINPADVQAGATPVVQEWGPICNKKEDAE	100
OforSNMP3	.....NPAVAFENVLEFNINPDEYQAGANPWNKEI GPYVYDEYRE	41
OforSNMP4	.....	0
Consensus	.....f l g g y g f p l i r s q i n l l k g r w p d f k i y l f n v t n p n d v q k g a p v v e i g p y y e y k e	
OforSNMP1	KLDELKDHNEDDTVSFNPPDYFI FKREKSGGLTGDEI TI PHMPI LANALAVEREKPAALKLI NKAI PHI FGHPTISVFLTAPVNNI LFDGI PLYGNVVDFS	180
OforSNMP2	KVNI VDHEDDDTVSFNLDIVVFNKDESGTLIGEEI TI FNVLLLCVLTAAEQEI ALKLI NTAI PHI FENFNNSVFTIARAANLLFEGVAFNCTSSDFS	200
OforSNMP3	KFDI EDKG DGTLSVLCNSTFNFNKRSCNLSSE	74
OforSNMP4	.....	0
Consensus	k d i d h d d t v s f n d f y f n k e k s g l t g d e i t i p l m l r e p a l k l i n a i p h i f p s v f t a p k n l f g c d f s	
OforSNMP1	AKAI CSEI RENDNLFKLGEDF FGFSFFGTNSAGGRFRNKRGI CDI KEVGRVVEYEGHKLSVYDGEENKFRGTDSI FAPFLTPSDKI EAFAPDLG	280
OforSNMP2	TKAVCSELKKRAFNHRI SEDF YFSF FGFKNGTIVREFEENKRGMEI KDLGKMEFKDCVLTIVVDGEECNALRGTDSTI FPFELTKKDKI EGEI PDNC	300
OforSNMP3	.....	74
OforSNMP4	.....	0
Consensus	ka c s e k n f e d i f s f g k n r f v k r g d i k g v e k l v d g e e c n r g t d s t i f p f l t d k i e f p d c	
OforSNMP1	RSI GAVVKESI VVKGI HSYSGADFQDNSTDPELKCFCTIPTTCNKKGI HDI TRCTGAPLNASLPHFYDAANEYQTQVI GLNPSKEKEBI LNVFEPLTST	380
OforSNMP2	RALVAEYQATTNRGI RSYKYADLGDSTDPELGCYCTPTTCLKKGVDVSRGAGYPVVSLPHEYLADDEYLDGVVGLNPTQEKHEVTLLEPLTAT	400
OforSNMP3	.....DVVTINFAVGTVLKAQRYLPSSMILDGVEKEI FHGSENVFHTATVGD	124
OforSNMP4	.....MCLGVSAI YSLPHFYNASPDYQYI QGLNFRKKEHETFLYI EPEGTGT	47
Consensus	r a y y g i s y y a d g d s t d p e l c c t p t t c k k g h d v r c l g p l v s l p h f y a p e y q t g v g l n p e k h e l f e p l t	
OforSNMP1	PLVGYKRIQFNI DVHAI DKI DLNKKI PTALFVIVVCEGMELKQEVLDKVASI FKI I GAVDVVKKVI LNVLGCGCAAGAI LGYRKKSNENDVDVSPVVK	480
OforSNMP2	PLEANRIQLNI PLHRTDSI DLLKNI KSTLPI I VACENELHCEYVDKI LDLFLI SIAGAKVI AVAVGGVLTATGFFFI LRRNDHTVI TELDPI AL	500
OforSNMP3	VVRGVKVNCTCTETNKTSPSEASV CSVLKSLIFANMTEH... EPGI FKAYFRYKNNINGRYRI NSGI S.....	190
OforSNMP4	VLRGFKRAQANI FLSKTDVLSI LNVSEGLFEVFWVEEGL ELDDKDLTP HRLVTLNAYFAII RVLIVAG.....	118
Consensus	p l r g y k r i q n i l h t d i d i l k n i l l p v l w v e e g m e l q e y l d k i a l f i i a d k w i l v a g g a g r k p	
OforSNMP1	KPAQI TPLEVQTLPR	495
OforSNMP2	KPTGKSAKTEHVI EK	515
OforSNMP3	.....	190
OforSNMP4	.....	118
Consensus	kp g	

Figure S7. The multiple sequence alignment of *O. formosanus* putative SNMPs. There is a 33.62% amino acid similarity between all the putative SNMPs. Sea green, pink, and black highlights are applied to the same residues, signifying 80%, 90%, and 100% similarity, respectively.

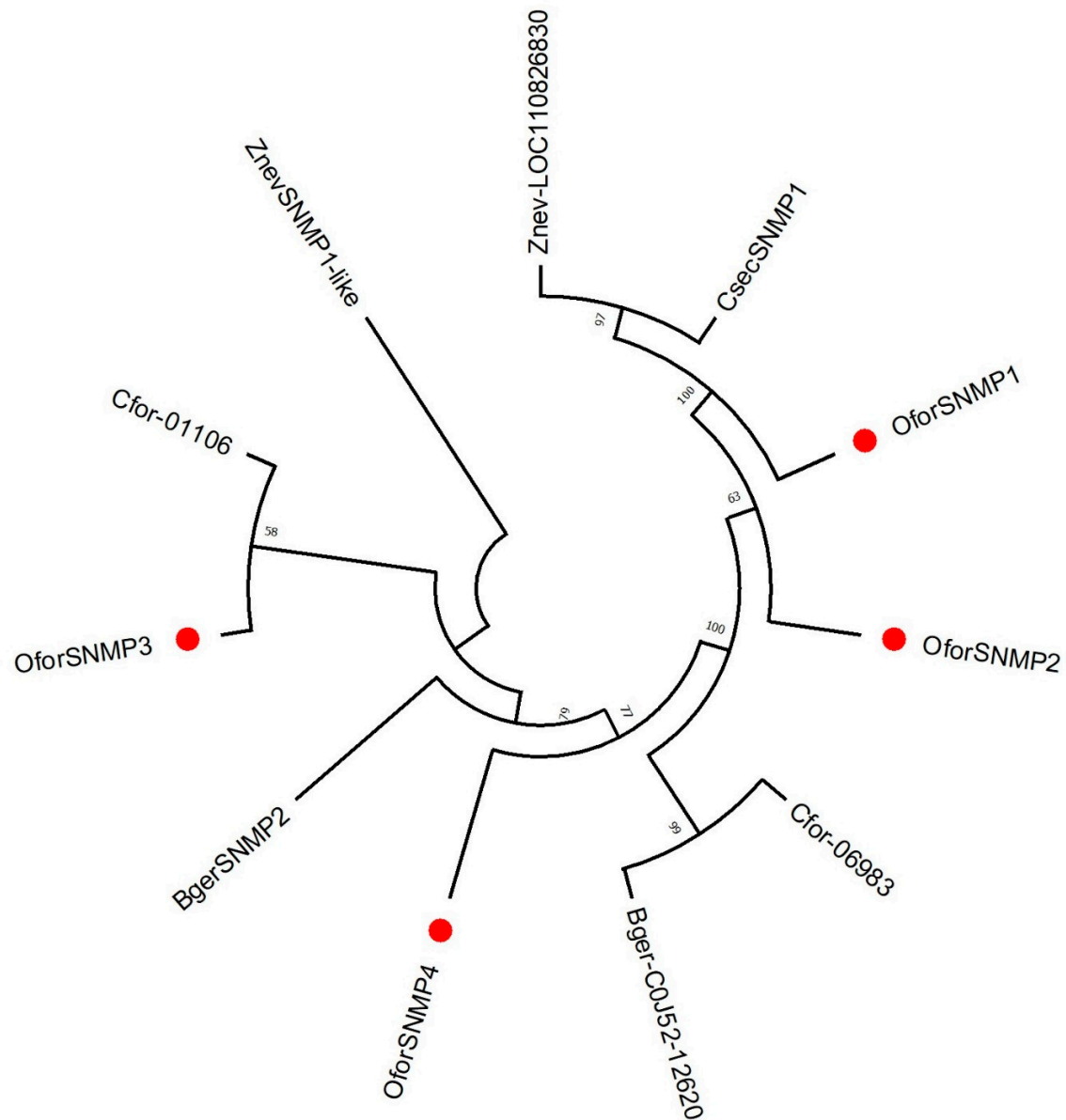


Figure S8. Phylogenetic tree of identified SNMPs with the SNMPs from different insect species. The identified SNMPs are marked red.

The percentages of bootstrap is shown in black color. The phylogenetic tree of 4 putative *Ofor*SNMPs was constructed by using the sequences from the insect species are; *Blattella germanica*, *Coptotermes formosanus*, *Zootermopsis nevadensis* and *Cryptotermes secundus*. GenBank accession number for all GRs genes are; *Bger*SNMP2; PSN50836.1, *Cfor*-01106; GFG35002.1, *Znev*SNMP1-like; XP_021919116.1, *Znev*-LOC110826830; XP_021913553.1, *Cfor*-06983; GFG37744.1, *Bger*-C0J52-12620; PSN43241.1 and *Csec*SNMP1; XP_023702700.1.

Gene Sequences; Chemosensory genes identified in the transcriptome assembly of *O. formosanus*

OforCSP

***Odontotermes formosanus* Chemosensory Protein 1 (*OforCSP1*) (OR651283)**

Nucleotide Sequence

ATGTGCAGCAAATGTTCTCCTAGCCAGAAGAGTATGCTAAACGTAGCAGT
GCAGCACATTCAAACCAGCCCTCCAGAGCAGTGGAATCAGCTGCTGGCAA
CTTTCGATCCTGACGGGAAGAAAGCTGCAGAATTTATTGCTTATCTGGCG
AAACCTTAA

Amino Acid Sequence

MCSKCSPSQKSMLNVAVQHIQTSPPEQWNQLLATFDPDGKKAAEFIAYLE
KP *

OforOBPs

***Odontotermes formosanus* Odorant Binding Protein 1 (*OforOBP1*) (OR651388)**

Nucleotide Sequence

ATGTTTCTAGTTCCTACAGCTTTTGTCAATTTCTGTGTAGCCTCAGTCAT
GGCAGACTCTCGGTTTGATGGACTGGACGACAATCAGAAGGCGATGATGA
AAATGCTGCGCGACACTTGCCTGAAGGAAAGCGGCTCAGAGGAAGGTCTC
ATTCTAGGAGCCATGAAAGGCGACTTTGCCGAAGACGACAAGTTAAAGGC
GTACATGGCATGTACCTTCCAGCAAGTTGGAGCGGTAAGTACAAAAATCT
TACCCATCTGCAGGTACGTAGTTCAGATCCCAGCCAAGATGTCTATTCTG
AAATTGTGGTACAGTATCTGA

Amino Acid Sequence

MFLVPTAFVIFCVASVMADSRFDGLDDNQKAMMKMLRDTCLKESGSEGL
ILGAMKGDFAEDDKLKAYMACTFQQVGAVSTKILPICRYVVQIPAKMSIL
KLWYSI *

***Odontotermes formosanus* Odorant Binding Protein 2 (*OforOBP2*) (OR651389)**

Nucleotide Sequence

ATGAAATTAATAAGACATCTGAAGTTACTTCTATTGATTGTTGTGGCCAA
CGTCTGGGTCTGCACTGCGGATTCGGCCCAAACAAAAACGTACAGGAGG
CCCAAGCAAAGTGCCAGGAGGAACACGGAATAACTGATGAAACATTTTTG
GAAATGCGGGACAAAGAAATGATTCTGGAGGATGAATCAAACGAATCTCA
CAAGTGTTTCATACAATGCATGCTGATTCATCTTGGAATGATACAGGACG
GCCATTTTGACGTCACAGCGGTGATGAATATTGCCAAACCGCTGCTGGAA
AGTGCTGAAGAACGTGGTCGAGAGGTGAATGAAGAGGGTCTTAAGACGGA
CATTGAAACGTGTACCGTTCAAAGCCCACAAGGTGAATGCACAGGCAGTT
ATGAAATGTGGAAATGTCTGCAACGCATAATGTCCAGTATTATGTTGCCA
GCATCTCAGGCAGAATAA

Amino Acid Sequence

MKLIRHLKLLLLIVVANVWVCTADSAQNKNVQEAQAKCQEEHGITDETL
EMRDKEMILEDESNESHKCFIQCMLIHLGMIQDGHFDVTAVMNIKPLLE
SAEERGREVNEEGLKTDIETCTVQSPQGECTGSYEMWKCLQRIMSSIMLP
ASQAE *

***Odontotermes formosanus* Odorant Binding Protein 3 (*OforOBP3*) (OR651390)**

Nucleotide Sequence

ATGCAGTTGCTACTTGCCGCAACAGTCATCTTTTTTGTGGGCCCCAGCTTT
TGCAGGTTCTCCGTTGGACAAACTTGATGACGATACAAAGGCTATGATGA
AAATGCTGCATGACACCTGTGTGGACCAAACCTGGCGTGCAAGAGAGTCTA
ATCGAAAGTGCTAGACACGGGGACTTCAGCGAAGATGAAAATTTCAAGGC
CTATTTGGGATGCGTCTACCTACAAACAGGAGCGCTGAATGAAAATGGAG
AGGCAGACTATGACACCATCATCGGGATGTTGCCAGAAGTCTTAGAGGAC
CGCGGTGGCAAAATGCTGAACAAATGCAGACATATCAAAGAGAACAGTG
TCCAGCTACGGCCTTTGAACTGAACAAGTGCATGTACGAAGCAGATAAAG
AGTTCTTCTTCATCTTCTAG

Amino Acid Sequence

MQLLLAATVIFVGPFAFAGSPLDKLDDDTKAMMKMLHDTQVQESL
IESARHGDFSEDENFKAYLGCVYLQTGALNENGEADYDTIIGMLPEVLED
RGGKMLNKCRIHENSAPATAFELNKCMEADKEFFIF *

***Odontotermes formosanus* Odorant Binding Protein 4 (*OforOBP4*) (OR651391)**

Nucleotide Sequence

ATGAGGAGCGGTTTAAGTCTCATCTTTCTGTTTGCCACTGCTCACTGTAT
TCTGGGAGAATCGACCCAGAGCTTTAAGGATGCTGTGTCACTAGCAC
AAGAGTGCATGCCGCAGGTTGGGGCGACAGAAGATGACTTCCAGACGGTG
ATCCACAGGAACCGCCTGGCCACTCGGACCGCCAAGTGTCTCCTGGCCTG
TGTCTACGAAAAGTTGGGCGCATTCGCAAATGAAGGTCCTTACTGGACG
AAGACCACATCATGCCTATTATGGACAGGCTGTATGGATTTAGAGAATTC
AAGACCGTGATGAGGGCCCAAGTGGTACACAACTGTGTCAATGAAGTGAA
CGGAAGAGACACTGACACATGTGAACTGGTGATGCACGTCCTGCACTGTA
TAATCGAGCACTACTGA

Amino Acid Sequence

MRSGLSLIFLFATAHCILGESTQSFKDAVSPLAQECMPQVGATEDDFQTV
IHRNRLATRTAKCLLACVYEKLGAFANEGHLLDEDHIMPIMDRLYGFREF
KTVMRAQVVHNCVNEVNGRDTDTCELVMHVLHCIEHY *

***Odontotermes formosanus* Odorant Binding Protein 5 (*OforOBP5*) (OR651392)**

Nucleotide Sequence

ATGGACCGCAGTGCGATAGTTTTTCGTCTTTCTGCTGCTTCTGGGTGCTGC
TTTCCTGCGGGAAAGCTTTGCGGGGCCGAGCCAAGCCCAATTGAAGCAAG
CGCTGAAAATTGTACGAAATATCTGTCAGCCGAAATCTGGAGCCACCACA
GCCGACATCGACGGAATTAGGAAAGGAATATTTCCCGAAAACAATGAAAA
ACTTCAGGAATACTGCAAGTGCATCCTTGACCTCTTAAAAATTATGAAGA
ACGACAGATTTAATCCGGATGCTGGTTTGGAGAATTTAAAAAAGCTGCCC
GAAGAATTGCGTGAACCCCTGAAAAAAGGTGTCACCGAGTGCCGCAAAGC
AGACGAAGGATCCAAATCGGGAAGAGAAGCTGCATACAAAGTCGTCAAGT
GCATTTACAATACAATACCACAAGACTTCGTATTCCCGTGA

Amino Acid Sequence

MDRSAIVFVFLLLLGAAFLRESFAGPSQAQLKQALKIVRNICQPKSGATT
ADIDGIRKGIFPENNEKLQEYCKCILDLLKIMKNDRFNPDAGLENLKKLP
EELREPLKKGVTECRKADEGSKSGREAAYKVVKCIYNTIPQDFVFP *

***Odontotermes formosanus* Odorant Binding Protein 6 (*OforOBP6*) (OR651393)**

Nucleotide Sequence

ATGGGAATGATGCAGACGATAAAGAACGGAAAGTACAAGCCGGACGCTGC
CATAAAACAAGCCAAGATGCTGCTGAGTGGTGAAACCAGGGACAGTGTGA
TTAATTCGATGGAGAAGTGCCGAAACGCGGGGGATGGAATAGAAGACACC
TGTGAATTGGCCTTCGTCACAACAAAGTGCATTTACAATGCAGATCCTGT
GAATTTCTTCTTCGCTTGA

Amino Acid Sequence

MGMMQTIKNGKYKPDAAIKQAKMLLSGETRDSVINSMEKCRNAGDGIET
CELAFVTTKCIYNADPVNFFFA*

***Odontotermes formosanus* Odorant Binding Protein 7 (*OforOBP7*) (OR651394)**

Nucleotide Sequence

ATGGCGCTGCTTCGCTGCTTGGTCATCCTAGTATCTTCTCAGCTCTTGGT
GCTGGTGAATGCAGTACCAGCGTCTAACGCTAAGGTGGACATGAAAGAAA
TTATGAATAAATGCAATGAGAGTAACCCTATAGACCAAGCCTACCTGGAT
GAGTTAAACATGACTGGCAGTTTTTCCCGATGAGAACGTTAGACCTGCCAA
GTGTTTCATTCGGTGTATTTTTATGGAACTGGACTGATGGATTCTGAAG
GCAACTTGCTAGCTGACAAGTTGAAGGATGTCTTCAAACATCACCAGGAA
TCTGTGGTCAACAAAGTCGCCGACCTGGATAATTTTGTGGATGCTTGTAT
AACTAAGAATGCCGATGTGAAATGCCAGTGCGAGAGGGCTTATCTCTTCT
CCAAGTGCCTGATGACACAGGAGATATTGAAATACGAAGACCACAGCAAG
TTGAGTGGTAAGAGAGATGAAGGGGGATACTGA

Amino Acid Sequence

MALLRCLVILVSSQLLVLVNAVPAASNAKVDMKEIMNKCNE SNPIDQAYLD
ELNMTGSFPDENVRPAKCFIRCIFMETGLMDSEGNLLADKLKDVFKHHQE
SVVNKVADLDNFVDACITKNADV KQCERAYLFSKCLMTQEILKYEDHSK
LSGKRDEGGY *

***Odontotermes formosanus* Odorant Binding Protein 8 (*OforOBP8*) (OR651395)**

Nucleotide Sequence

ATGATGTTTCATGAAAATTTTGTTTATTTCTCTTGGTGTCTCCTGCTACCT
TTCAACTGCTGTGCCTACAAGCGGCCATTCAGCTGTAGAAGTCGTGAAGT
TTTGCCAGAATCTAACAGGGATAAGTGACGCGGAAGTTGAGGTTCTTCAG
AAAACGGATATAGCAAATAATGAGTCCATAGAGGCGCAGAGGTGTTTTGT
GGCTTGACGCTTAGCAGAAGAGGAGTGATGAAGAAGGGGAATCTTATCG
TTGACGTCATGGTTGAATTTTCGAAAAGAGCGTTTGCAGACGAGGGCCTA
AAGTTCGACGAAGCAATGTTTCAGAAAGGGCGTTACCGATTGCAACAACAC
AACTGGAGACGGCAAATGTATGAAGAGCTACAAGACATGGAAATGCTTCC
TGGAATTTTCAATGAAGACAATGATGTGTGTGGTTTTATTAGCAGACGCA

AGAAGAGATAAAGGGACCAAAGTAACCTTATGGCAGTCTTCTACGTCTGC
AGATGCCGATTAA

Amino Acid Sequence

MMFMKILFISLGVSCYLSTAVPTSGHSAVEVVKFCQNLTGISDAEVEVLQ
KTDIANNESIEAQRCFVACTLSRRGVMKKGNLIVDVMVEFSKRAFADEGL
KFDEAMFRKGVTDNNTTGDGKCMKSYKTWKCFLFSMKTMMCVLLADA
RRDKGTKVTLWQSSTSADAD *

***Odontotermes formosanus* Odorant Binding Protein 9 (*OforOBP9*)** (OR651396)

Nucleotide Sequence

ATGGACAACCTTACAGCTACTGGTAATTTTCATTTTCAGCGCTGCTGCTGT
AACAGGCTTCCAGCTGAGATCCAGTCTCGATGGTTCCAGATCAGAAGATT
TATTAAACAGCGGTAGTAGGACAATACTGTCCAGAAACAGGAGAGACACT
GACCACGAACTGGCACACAGTGC GGAGATGTGCTGCAATATGAAGCATCA
AAAGACTATCAATGAAAAGGAAATGGAATGTATGCAGGAAGCCAGTTCTA
AATTGTCAGTAACAGTCACTGAAGAAATAATTGCAACCCACAGGGATTCC
AACGAGACAGCTTGTTTTTTGGACTGTATTCTACGCAAAAGCAATGCACT
GGATGGCGGTGGACAGATAATAATGGGCGCAGCTACTGAAGCCTTAGCAC
AGTACCCTCCCTTTAAGGATCAAAGCTTACTCGATAAAGTGACAACGACT
TGTGCGAATTTACCTGGAGTAAACGGCGGGGCTTGGAGAGACCTACGT
GTGTAACCAAGCAGCAATGCAATTCGTGAGGTGTGCGCATGACATCAAGA
TACTTAACTGTCCGGTAGAGAATCAGATTCAATCTGCAATGTGTACGAAA
TTTTGGGAGGAAGTAAAGGCACAGAAGCAGTGA

Amino Acid Sequence

MDNLQLLVIFISAAAVTGFQLRSSLDGSRSEDLLNSGSRTILSRNRRDT
DHELAHSAEMCCNMKHQKTINEKEME CMQEASSKLSVTVTETIIATHRDS
NETACFLDCILRKSNALDGGGQIIMGAATEALAQYPPFKDQSLLDKVTTT
CANLPGVNGGGLGETYVCNQAAMQFVRCAHDIKILNCPVENQIQSAMCTK
FWEEVKAQKQ *

***Odontotermes formosanus* Odorant Binding Protein 10 (*OforOBP10*) (OR651397)**

Nucleotide Sequence

ATGATACGGATATTATTTGTAATCCTCGGGGCCGCTCTTTGTCTAACTGG
AGTCTCTCCTTCGGATGAACCGCCCGCTGCTTTTCAAAAGTGCCAAACCG
AGCATGGAATTCCTGACCTTCAAAGTATCATGAATCCCCGATCAATGACG
CTGAATGACGTCTCAAATGAGGCTGGCAGGTGCTTCGTGGAGTGTCTAAT
GAGAGAATTTCAAATTCTTAAGGGGAACAAGCTTGAGAGCCGTAAGGTGT
TAGAAGAGGTTAACAATATGGTACAGTTCGCCAGATCGCAAGGAAAAGAG
TTTGATGTGAACAACTCAAGTCCTCACTGACAGCATGCGGTAACCAAGG
TGGTGAGGGGAAGTGCATGAAGACTTACAAGATGTGGGAATGCATGAACA
ATGTTGTTCGACAGGTGAGACCAGCAGCTACATAA

Amino Acid Sequence

MIRILFVILGAALCLTGVSPSDEPPAAFQKCQTEHGIPDLQSIMNPRSMT
LNDVSNEAGRCFVECLMREFQILKGNKLESRKVLEEVNNMVQFARSQGKE
FDVNKLKSSLTACGNQGGEGKCMKTYKMWECMNNVVRQVRPAAT *

***Odontotermes formosanus* Odorant Binding Protein 11 (*OforOBP11*) (OR651398)**

Nucleotide Sequence

ATGAAGACTGTGAAACCTGCACTAGTGGCGGCCATCTTGCTGTTGCTGGG
AATGGCAGACCTCGCTGTGGGGTTGACAGGCCGTGCTTTTGAAAGAGCCA
AGGAAGTCGATGAGAAATGTAGAAACGAAAACCAAGTTGAGAGAGCGTAC
TTTGAAAAATTTATTAAAGCACGTATTGAAGAAATAGATCCTCCAAACAA
TTACAAGTGTTTTATTAAATGCGTCATGGTGGAACCTATTATCTCTAAACG
AAAAGGGAGAATTCAACATCGACGAAGAACTGCAGAATGTACCACCGGAG
ATTGTGGAAGAGGGACATCGTATAGTCAAGGCTTGCCAAGACACACCCGG
AAAGGACTTATGTGACAAGGCTTACCAGATGCATAAGTGTTACCATAGAG
AAAATCCGGAGCTGTATTCGCTTGTGTTACATTACTGGGAAAATGCATCC
CAATAG

Amino Acid Sequence

MKTVKPALVAAILLLLGMADLAVGLTGRAFERAKEVDEKCRNENQVERAY
FEKFIKARIEEIDPPNNYKCFIKCVMVELLSLNEKGEFNIDEELQNPPE
IVEEGHRIVKACQDTPGKDLCDKAYQMHKCYHRENPELYSLVLHYWENAS
Q *

***Odontotermes formosanus* Odorant Binding Protein 12 (*OforOBP12*) (OR651399)**

Nucleotide Sequence

ATGGCTGGGTCAGCAATCATGTATATGGTAATGACAATTTTGGCCACCGT
ACTGTTGGGGACATCTGATGCACTGACTATGGACCAAGTGCGGCAAGCGG
CAAAAATGATGAGAAATACATGCTTGACGAAAATAGGAGTCAGTGCAGAA
AATGTGGATGCTGCTTTAAATGGTCAGTATGATCCTGGTGACAGAAAAGC
TAAGTGTTACACGAAATGTGTCATGGGGATGATGCAGGCGTTGAAGAATG
GAAAGTACAATGCTGATGGTTCCATTTCAATGGCAAAGGCGATGCTGCCC
AGCGGTATAGCTGAAAGGATGGTCGCTTCCATCGAGAAGTGCCGCGGTGA
ATGGGACAAATATGAGGACGACTGCGATGCGTCTTTCGCAGTAACAGTGT
GCATATACCAAGCTGATCCCGAGATTTTCTTCTTCTCTTAA

Amino Acid Sequence

MAGSAIMYMVMILATVLLGTSDALTMDQVRQAAKMMRNTCLTKIGVSAE
NVDAALNGQYDPGDRKAKCYTKCVMGMMQALKNGKYNADGSISMAKAMLP
SGIAERMVASIEKCRGEWDKYEDDCDASFAVTVCIIYQADPEIFFFS *

***Odontotermes formosanus* Odorant Binding Protein 13 (*OforOBP13*) (partial) (OR651400)**

Nucleotide Sequence

ATGAACTCCGTACTGGTTAACAGGCAGCTGACCGTTGTGGAAAATGCAGG
GGGCTTCAAATGTTTCTTGCAATTGCCTTTATTACAGGTACAACCTGGATGG
ATGAAGAGGGAGGATTCCTTCTGCGCAACATGAAAAGCGCTTTGGCGACT
ACCAGACTGGATGATCTCACTGCT

Amino Acid Sequence

MNSVLVNRQLTVVENAGGFKCFLHCLYYRYNWMDEEGGFLLRNMKSALAT
TRLDDLTA

OforORs

***Odontotermes formosanus* Odorant receptor 1 (*OforORI*) (OR651429)**

Nucleotide Sequence

ATGGAGCTACTAACACAAAGTATGATTAAATTCCTTGGTGTAGAGGAACA
TTATGGGGCAAACAAATTGCTTCAATTCAATCTTCACAGGCTACGTATTC
TGGGTGTCTGGAAGTGGGATGCGCCTCAGTGGAGACTGCATAAAACATTT
GCATTTTAACTATTATATCACTGATTCTGTGTGATGTAACACTAATTTG
TGATACCTACATCTACATCACTGACTTAGAACGCCTAGCAAATTTACTCT
TAAGTACTATATTCCTGCGCTTCTTGCATTCAAGAATACTTACATGCTT
ATTAGAACTGATAAGGCTTCAGAACTTATTGATCAACTGCAAAACAAATT
TTTCACGGATGACCGACTGCCCACATCACAGCAGACAATGATCTTGAATA
GATACGCAGCAAGAGCAAAGCTCTATACTATCATAAGAAGCAATTTGGCA
ATCAGTATAGCTATATTCTGGGTTTTATATCCAATTAAGGAAATGTTGGG
GGAGTATGCAGAAGAACTACATGACTCACAGGACAGTACTGATGTGAAAT
CTAACAGCAACAGAACTGTCATTTTGCAGTTGCCATATGTTGCGTACTAT
CCTTACGATGTGGAACATAATGTTCTTAATTTTCATTCTGACATACTTCTT
TGAGTCATTTGTTGCATTTTCTGTTTTTGTGGAATGCCTGCTTGGGATA
TGCTTTTTGTTTCTGTATTTATTCATACTTCTGGGCATTTTAAAGCACTG
CAACATGTGTTGATCCATTTGCGTGAAAACGCTAGAGAAGCACTGAAAGA
AAATGTGAATCAACTTCAAATCCAGGAAGCCATTTGTGTGTCAGAACAAA
TTGACAATGGTGGCAGCAGTGTGTGCACAATGGTACATCATTCAGAAGAA
TATGCAGGAGGTATGTTTTTTTAG

Amino Acid Sequence

MELLTQSMIKFLGVVEEHYGANKLLQFNLHRLRILGVWKWDAPQWRLHKTF
AFLTIISLILCDVTLICDTYIYITDLERLANLLLSTIFTGLLAFKNTYML
IRTDKASELIDQLQNKFFTDDRLPTSQQTMILNRYAARAKLYTIIRSNLA
ISIAIFWVLYPIKEMLGEYAEELHDSQDSTDVKSNSNRTVILQLPYVAYY
PYDVEHNVLNFILTYFFESFVAFSVFGMPAWDMLFVSVFIHTSGHFKAL
QHVLHLRENAREALKENVNQLQIQEAICVSEQIDNGGSSVCTMVHHSEE
YAGGMFF*

***Odontotermes formosanus* Odorant receptor 2 (*OforOR2*) (OR651430)**

Nucleotide Sequence

ATGGCAGTCACTAGCATGAGGCGTCTGGTCATGTACGTGGGCATCGGCAT
CATCCTCAGCGGGTTTGCCTGGACCACCATCACCTTCTTCGGAGAGAGTG
TGCACAAAATAAAGGACCCAGATAATTTGAATGAGACTATTTTAGAGGAG
GTACCGCGTCTCATGCTACGTTCGTGGTATCCCTGGAATGCTATGTCTGG
CGGAGGATACGTCGTGTCCTTCATCATCCAGATCCTGTGGCTATTTCTGG
CTCTGTCACATGCCATGATGATGGACACTATGTTCTGCTGTTGGCTCATC
TACACGTGTGAGCAACTCATTCATCTGAAAGAGATCATGAAGCCGCTGAT
GGAGCTCAGTTCATCGCTGGACACTGTGGTGCCTAACTCCGCAGACCTGT
TCCGTGCCGCCAGCACCAATACCAACGCTGCTGTACCTTCAGGTGATGGT
GAGGGTATTCGAGCTATATACAGCAACCAGCACGACTTCTCCAATTTCCG
ACTGAATACAGGCACCCTTGTC AACGTAAACAGTGGCTCTATTGGACCAA
ACGGACTGACAAAGAAACAGGAGCTCCTAGTACGGTCCGCCATCAAGTAC
TGGGTGGAGAGACACAAACACGTGGTTCGATTCGTCAGTAATATTGGAGA
CACGTACGGGTCGGCACTGCTGCTACATATGCTGACCAGCACAGTGACAT
TGACACTGCTCGCCTACCAGGCCACGAAGATTGACACTGTAGATGTCTAT
GCCTGCACCGTGATCGGCTATCTAGTGTACACATTGGCCCAGGTGTTTCT
CTTCTGCTTCTTTGGCAACCGTCTCATCGAGGAGAGCTCATCAGTGATGG
AGGCTGCCTACAGCAGTCAGTGGTATGACGGGTCGGAGGAAACCAAGACT

TTTATCCAGATTGTATGTCAACAATGTCAGAAACCAATGAGCATCTCTGG
AGCCAAATTCTTCACAGTGTGCTCGATTTGTTTGCTTCGGTTCTTGGTG
CTGTAGTGACCTACTTCATGGTGCTGGTACAGCTCAACTAG

Amino Acid Sequence

MAVTSMRRLVMYVGIGIILSGFAWTTITFFGESVHKIKDPDNLNETILEE
VPRLMLRSWYPWNAMSGGGYVVSFIIQILWLFLALSHAMMMDTMFCCWLI
YTCEQLIHLKEIMKPLMELSSSLDTPVPSADLFRAASTNTNAAVPSGDG
EGIRAIYSNQHDFS NFRLNTGTLVNVNSGSIGPNGLTKKQELLVRSAIKY
WVERHKKHVVRFVSNIGDTYGSALLLHMLTSTVTLTLLAYQATKIDTVDVY
ACTVIGYLVYTLAQVFLFCFFGNRLIEESSVMEAAAYSSQWYDGSEETKT
FIQIVCQQCQKPMSSISGAKFFT VSLDLFASVLGAVVTYFMVLVQLN*

***Odontotermes formosanus* Odorant receptor 3 (*OforOR3*) (OR651431)**

Nucleotide Sequence

ATGGGATACATCAAGAGGAACAGGAATACTGAGTTCTCGTGTGATAACAG
CCTTCATCAGAGCAGATTTAAGACGACTCTCTCTCTTTTGCGACACGCAG
GATTGATGATTA ACTACACATCGCCATCAAACTTCAAAC TTTATACACT
ACAGTTTGTGCAGTGTGTTATTACAGTACTTGGATGTGTTCTATTATGGA
TATGTATGTTACAGATATGATTTGACGAAAGTTATGGAGAAAAGTCGTT
TATGGCTTCTTATGTCACTCCTAGTGTGGATGAATTTGTTTGCAGTTAC
CGTAAACGGGATATCGAACTGCTGCTCAGACAGACAGACTGGTTTACGTG
GGAAGAACTGCCTACCAGAGATCCTGACAGCGGATATTTGACAAAGGCTG
GGTACATCCCGATCATCCAACGTCTTACCAAATATGCTTTTTGGGTCATC
TTTTTTTTTCCACTTCACCCAGTCAACAGTCCGCATTGTGATCAGCCGCGA
AATGATCATAAGTCCGTGGTTTCCGTTTCGACACATCGGCGACTTCAGTAT
ACATATGTGCGAATACAATACAGGCCATTGCGTCACTCTTCCCAATGTTT
ATAGCTTTTCGGCTTTCCAGCCTGTACGCTACGCTAATGATTGTACCCTG
CAGTCAGCTGGAGAAGCTCAGAGCAGCCATGTTGGATATCAGGCAGGCAC
AAGACAATTATCAACATCATTCAGGGCGACATACAGACATTTCGGAACAC

GTGTTCCAAAATATGCAGAAACAACAACTAAACGACTGTATATCTCACCACCA
GCAAGTACTACGATACATGGAAATGTTGGAAGACACAATGAATCTTCCAC
TCTGTGGACTATTCCTGATTTCTTCACAACGATGTGTTTCGACGCTCTC
TTCATTATGATGAGTTTCAGCAATGCTGCAGATGTACTGCAGGGTCTGAT
ATTGTATATTTATATAACTATCTGCTTGTCCCTCTACTGTTGGCTTGGA
ACGAGCTATCAGCTGAGTGGGAGATGGTGAGTGACGCAGCCTGGGGCTGC
GACTGGATAGGAACTCCTGTCCCATTTTCAGCGCTGTCTGGTCTTCATCAT
TGCCTCAGCTAATAAGGGGTTTACACTGACAGCTGGCAAATTTGTTCCGG
TCTCCAACAAAACATTGTTGAATATGGTGCAGCAATCTCTATCCTTCTTC
ATGTTTCTTCTATATGTGAAAGACAAGAATATCCAGAACACTCAGCAAGG
ATAA

Amino Acid Sequence

MGYIKRNRNTEFSCDNSLHQSRFKTTLSLLRHAGLMINYTSPSKLQTLYT
TVCAVCYYSTWMCSIMDMYVHRYDLTKVMEKSRLWLLMSLLVWMNFVCSY
RKRDIELLLRQTDWFTWEELPTRDPDSGYLTKAGYIPIIQRLTKYAFWVI
FFFHFTQSTVRIVISREMIISPWFPFDTSATSVYICANTIQAIASLFPMF
IAFGFPSLYATLMIVPCSQLEKLRAAMLDIRQAQDNYQHHSGRHTDISEH
VFQNMQKQLNDCISHHQVLRMEMLEDTMNLPLCGLFLISFTTMCFDAL
FIMMSFSNAADV LQGLILYIYITICLSLYCWLGNELSAEWEMVSDAAWGC
DWIGTPVPFQRCLVFIIASANKGFTLTAGKFVPVSNKTLLNMVQQSLSFF
MFLLYVKDKNIQNTQQG*

***Odontotermes formosanus* Odorant receptor 4 (*OforOR4*) (OR651432)**

Nucleotide Sequence

ATGCTTATGACAGATTTCTTACTGTTCCAGATGCCGCTCAATGTGGAATC
TGCGATGCTAATGGGATATTTAACAGTTGTGATTTCTCAGTTGGGCCTGT
ATTGTACATTAGGGTCCAATTTAATGATCCAGAGCGAGGAGGTGTTCAAC
GCCGTGTACGACAGTGACTGGTACAACCAGTCGCAACAATACAAATACTG
CACCAGGATGATGATCATGAGAGGCCAGAAGCCGGTGAAAATCACCGCTG
GCAGGTTTCGGAACCTTTGTCCCTTCCCCTCTTTGCTTCGGTGAGTGTAAG
TGGAAAAATGGTAATAAACGTAGCTCGCACTATTAG

Amino Acid Sequence

MLMTDFLLFQMPLNVESAMLMGYLTVVISQLGLYCTLGSNLMIQSEEVFN
AVYDSDWYNQSQQYKYCTRMMIMRGQKPKITAGRFGTSLPLFASVSVK
WKNGNKRSSH*

***Odontotermes formosanus* Odorant receptor 5 (*OforOR5*) (OR651433)**

Nucleotide Sequence

ATGACTGGATCAAAGAAGAAAGAAAGTCAAGTTTCTGATACAAATGACAC
ATTAAAAAGTGAAGAAGAAATTCCAACGTGGGAAGCGAAAATCATGACTA
TCGTTCGTACCCCTGAATGTAGTTGGTCTCCTTCCTCCTCCCAAATCTTCG
TCATTCATCAAATTGATCTACAAAACCTTTCAGAGTATTCATACATATAGT
TTACGCGTTGACAGCGATAGCGGAGTTCACTGCCTTCGTGGTTTACTGGG
GAAATCTTCCCGTAGTTGCCACCACTATGGCTGCCATGTCTGGTTTACTC
TTATCAATGACCTCTTCCATAAATTTTCTGCGCAACAGAAAGAAATTCAT
AAGCCTTATAGATATGCTGAGAACAGAATTTGTTGCCAAATTGAAACCAA
AGTATATGAACTTATTTTAAAGGCTGAACGTGACATTTTACTCTTTTCA
TTATTCTTATACCCTGTAGGTTTAAAGTATTTCTTTTACTTGGATATTAGC
GCCCTTTTTTAAATAAGAACCCCCTATATAACTTTAAAAATGAAAATAATG
TCACAGAAGGAAGTAGTGTGGAGAATTTAATTTTTGTGATGTGGTTCCCT
TTTGAATTTGACAAGTCCCCACAATTTGAAATAGTAATAGCGTTGCAGGT

TTTTGTTATGACTTTTGCGGTAATAATGGTATTTGCACTTGATTTAGTGT
TTCTGTCTCTGATGAGACATGCCGCTGCTCTGTAAAGGGTGTTGCGTGCC
ATGCTGAATGATATGCATGAGAACGTCACAGAAAACAATTTGCATACAAC
AAGGTACGTAGATTCTTTGAACAGTGACACTGATGTCAGATTCCAGAAGA
ACGGCCCAGTGTCATAAATTATCCCCCTTTACCCATTCTTTGAGCGGA
GATACAGAGAGAAATTCAAAGCTTCTTGTTGAGATGGAACGCCTGGAAAA
TGAACACTTGGAGGAAGATATTTCCGGCAGTACCTAGTTGAATGCATCA
GATATCACCAGGCTGTATACGCGTTTGTTGATCAACTGAACGAGGTTGTA
AGTGCTGTAACCTTTCTTGAAGTTACTTAACTTTCCGTTAGTGATATGTAT
GACAGCATTTTCTGATGACGCAGTCGATAGACAGCCAGCAGCAGTTACTGA
GATTCCTCTCCATGTTTCGCTGGGGGTGTCTCTCTAGTAACGTCATATACG
TGGTTCGGACAGCAAGTAATTAACGAGAGCGAGGAAGTAGCGACAGCTTT
TTACAACATTGACTGGTACAACCAGACGCCAGAGTTCAAACGTCCTGCTAC
CTCTAGCCATCATGCGCGCGTCGAAACCCGCCAAAGTTGAGGCCGGAGTG
TTCTTTGACATGTCTTTTGTCACTTTAGCTGCGATTATGAATACGTCTTA
TAAGATTTTCATGATGCTAATCCAAGTCAAGACGCCTAA

Amino Acid Sequence

MTGSKKKESQVSDTNDTLKSEEEIPTWEAKIMTIVVTLNVVGLLPPPKSS
SFIKLIYKTRVFIHIVYALTAIAEFTAFVVYWGNLPVVATTMAAMSGLL
LSMTSSINFLNRKKFISLIDMLRTEFVAKLKPKYMKLIFKAERDILLFS
LFLYPVGLSISFTWILAPFLNKNPLYNFKNENNVTEGSSVENLIFVMWFP
FEFDKSPQFEIVIALQVFVMTFAVIMVFALDLVFLSLMRHAAALLRVLRA
MLNDMHENV TENNLHTTRYVDSLNSD TDVRFQKNGPVSLNYS PFTHSLSG
DTERNSKLLVEMERLENEHLEEDIFRQYLVE CIRYHQAVYAFVDQLNEVV
SAVTFLKLLNFPLVICMTAFQMTQSIDSQQQLLRFLSMFAGGVSLVTSYT
WFGQQVINESEEVATAFYNIDWYNQTPEFKRLLPLAIMRASKPAKVEAGV
FFDMSFVTLAAIMNTSYKIFMMLIQLQDA*

***Odontotermes formosanus* Odorant receptor 6 (*OforOR6*) (partial) (OR651434)**

Nucleotide Sequence

ATGGAGCGTATCAACGGTAGCACTAAGGCTAACGCGTCAGGCTGTAATAA
TCTACACGAAAGTCGTTTTAAGACACTTCTCTTTTTTCATTCGACTGGGCG
GACTTCCATTTAAGTTACAGTCAGTGTCAAGAATTTACACAGCATACAGT
GCAACCATTATCGTGTGTTTTTACATTACTACTGTATGTCTTATCATGGA
TACGTTTCGTTCATAGAGGCCAACTGGTGTACGCTATGATGAAATTGCGCA
TAATTCTTGTATTCACAGTAGCTGCATGGATGCACCTCAGTTTCAGTTAT
CGCAAACGTGATATCGAGCAACTTCTTTTTCTGACCGATTCTTCACGTG
GGAGGACCTGCCTACCAGAGATCCTGACACCGGGCATTTAACAAAGGCTG
GGTACATACCGATCATCCAGGATCTTACTAAAAACATAAATGTATTCATG
ATTGCATTCAACATTATCCAGAGTACTGTGCGCATGGTGAAGAACCATGA
TATGTACCTCACGAGTTGGTACCCTTTTGACGTGTCAGTGAGTCCAATGT
ATGAAATCGCAAATCTCACACAGGGCATAGCAGCACTATTCGGATTATGT
ATATTACTTGGGTTCCAAAGCATAACGCTACGCTAGTCTGTGTAGCCTG
CAGCCAGCTGGAGAAGCTCAGACTGGCGCTGTTGTATATCAGACAGACAC
ACGTCATATCAGAACATCAATTTCGGAGATGAGATACAACAGCCAGCTGTT
CACGAACAACCAAACCTTTCTGATGAATCGTCCCGTCACATGCAGGAACA
ACTTAACAACCTGCATACGTCACCACCAGCAGATAAAGCGATACATGGAAG
CACTAGAAGACACAATGAATATCCCTCTATGCGGTATACTGCTCATTTTC
CTAATACTAATGTGCTTTGGCGCTTTCTCCATCGTCACGAGTTGGGGAGA
TCACAACGATATATCGCAGGCTGTAGTAGTGTACATTTATGCAGCGGGAT
CTGTATGTTTATACTGCTGGCTTGCGAGTGAGCTGTCAGAGCAGGCAGAA
AATGTAAGAGACGGTGTCTGGGGCTGCGACTGGGTAGGAACTCCTGTCCC
ATTTACAGAGCTGTCTGGTCTTCATCATTGCTACAGCCAACAAGGGGTTCA
CAATGACAGCTGGGAAATTTGTTCCAGTGTCCAACCTCTACATTGATGAAT
GTAAGAATGCTAATCGTTCCTCTAATACGAAGCAGCAG

Amino Acid Sequence

MERINGSTKANASGCNNLHESRFKTLFFIRLGGLPFLQSVSRIYTAYS
ATIIVCFYITTVCLIMDTFVHRGQLVYAMMKLRILVFTVAAWMHLSFSY
RKRDIQQLFLTDSFTWEDLPTRDPDTGHLTKAGYIPIQDLTKNINVM
IAFNIIQSTVRMVKNHDMYLTWYPFDVSVSPMYEIANLTQGIAALFGLC
ILLGFQSIHATLVCVACSQLEKLRLALLYIRQTHVISEHQFGDEIQQPAV
HEQPNLSDESSRHMQEQLNNCIRHHQKRYMEALEDTMNIPLCGILLIF
LILMCFGAFSIVTSWGDHNDISQAVVVYIYAAGSVCLYCWLASELSEQAE
NVRDGVWGCWVGTPVPFQSCLVFIATANKGFTMTAGKFVPVSNSTLMN
VRMLIVPSNTKQQ

***Odontotermes formosanus* Odorant receptor 7 (*OforOR7*) (OR651435)**

Nucleotide Sequence

ATGACCAAACAGTTCACGTGGATGGAAGTTCACCAACCAGGGAGCACGACAC
TGGCTCACTCACCATGGCCGGCTGGATTCAGCGTATCCAGCCTTTGGTGT
GGAAATTAAATTTCTGCGACTGGGGGACTCACTTACTATACTTCATCCTG
CGTGGTGTTACAAGTGATGGCAAACCGTTTTTCTTTAACGCCTGGTTCCC
GCTTGATACCGACGACACTTCTACTTACTTTCTTGTACTCATCATGCAGA
CTCTGGGCAGTGTGATGCTAGGCACAACACTGTTTCGCGGTGATGGGACTG
TATGTGGTGCTGGTATCTGTGGGCTGCACCCAGCTGCAGAAATTGCAGGC
GGCATTGGGCGAATTCAGGCAGCAGGAACAAGAAGAGATGTACACCATTC
TGGTCAGATGTGTGCAACACCATCAGCAAGTTCTGAAATACATGAAGGAG
CTAGAGCAAACATTCAGCCCTGTACTCTTCGGTCCTTTCCTGTCGGTGGT
GGCAGCACTCTGTTTTACCGCCTACACTGCAATAACACTGGGCGGAAAGT
TTGTGGAGATTATACAGATCCTCCTCATTACCGGTGCCATGATGTTTCAG
ATACAGGCTGTGTGTTGGTTTGGTACTGAGCTAACTAAACAGTCTGGCAG
AGTGCGGGATGCAGCATGGGAGAGCGACTGGGTGGGTGCGCCTGTTCCCT
TCCAGCGGTCCATCATATTCATGATTTGCGTCTCAAAGGAATTCAAACCTC

ACAGCTGGCAAGATTATCCCCGTGTATCAAAGCACTGTCATGGTGGTGCT
GAACCAGACCTATACATATCTGATGGTACTCCTGAACTTTGTGCAAAAAT
CCAGTACATAA

Amino Acid Sequence

MTKQFTWMELPTREHDTGSLTMAGWIQRIQPLVWKLNFCDWGTHLLYFIL
RGVTS DGKPPFFNAWFPLD TDDTSTYFLVLIMQTLGSVMLGTTLFAVMGL
YVVLVSVGCTQLQKLQAALGEFRQQEQEEMYTILVRCVQHHQQVLKYMKE
LEQTFSPVLFGPFLSVVAALCFTAYTAITLGGKFVEIIQILLITGAMMFQ
IQAVCWFGTELTKQSGRVRDAAWESDWVGAPVPFQRSIIFMICVSKEFKL
TAGKIIPVYQSTVMVVLNQTYTYLMVLLNFVQKSST*

Odontotermes formosanus Odorant receptor 8 (*OforOR8*) (OR651436)

Nucleotide Sequence

ATGGGTTACAGTTTGACAAGTGCTACACGGGCATCAGATTTTGCACATTC
TGCAGGATATGTCGTACATCTTATGGTGGAGACCGGAATCATTGCTGGC
TGGCCACTGGTCTTATTACACAGGGCGACATAGTTGGGGAAGCCGCGTAT
TCGTGTGACTGGTACAACGAACCAATCAAATTTCAACGCTCCATAATGAT
CATCATGATGCGCACGAAACGGCCCGTG CAGATATCAGTGCGACCTGTAG
GAACGCTATCCTTGGAGATGTTTGCTACCATCCTGAACTCCTCTTACTCA
TATTTCACTATTATGAGAGGCATGACAAACTGA

Amino Acid Sequence

MGYSLTSATRASDFAHSA GYVVHLMVETGIICWLATGLITQGDIVGEAAY
SCDWYNEPIKFQRSIMIIMMR TKRPVQISVRPVGTL SLEMFATILNSSYS
YFTIMRGMTN*

***Odontotermes formosanus* Odorant receptor 9 (*OforOR9*) (OR651437)**

Nucleotide Sequence

ATG TTCAGCACCCGTGGAGCTATTGTGTCACTATGTATTCATTTAGTCCA
ATCAACAATCCGCATCGTGACAAACCACGAAACGATACTAACTGTGTGGT
ATCCTTTCGACTGGACTGTTTCGCCGTACTACGAACTGGTTAACATCTCA
CAGTGCTTTACAGCATTACTAGTAACGGGTGTGACATTCGGTTTCCCGTC
TCTGTGCGCTACTCTGACTGCTGTGGCCTGTGCTCAGTTCGATAAGCTAA
AGGCGGGCATATTGGATATCAGACAGCAACATATCACATCTCAACAAGGG
CTGGAAATTGAACAAGTTCATACAATTGCAAACGTGAATTGCAAGCCAA
GCTAAGGGAGTGTATTCGATACCATCAGGAAATATTGGCGTTCATGAAGC
AAATGGAAGACTCGCTAAACACCGTTCTGTGTGGCCACTTTCTGATTATG
CTGGCCACAATGTGCTTCGCTGCTTTTTCTGTAGTTACGAACTGGGGAGA
TTATGCAGATATGATTCAAGCAGTTATAATTTACATAACGTTCTCCAGTG
ACGTGCTTCTGATCTGCTGGTTTGGAACCTCAGTTGACACAACAGGCAGAC
AGTGTGAGAGACGCTACATTCGGGTGCGACTGGGTGGGAACTCCTATTCC
ATTTACAGAGATGTCTAATGTTTCATCATCGCTATAGCTAACAAGGAGTTCC
AACTGACAGCGGGAAAGTTTGTTCTGTATCGAATGTGACCATGATGAAA
ATAATGCAAGAGACTCTGTCCTTCTTCATGTTTCTGCTTCAAGTGAAAGA
CAAGAATGAAGAAACGAAACAGGGTTAA

Amino Acid Sequence

MFSTRGAIVSLCIHLVQSTIRIVTNHETILTVWYPFDWTVSPYYELVNIS
QCFTALLVTGVTFGFPSLCATLTAVACAQFDKLKAGILDIRQQHITSQQG
LEIEQVHTIANCELQAKLRECIRYHQEILAFMKQMEDSLNTVLCGHFLIM
LATMCFAAFSVVTNWGDYADMIQAVIIYITFSSDVLLICWFGTQLTQQAD
SVRDATFGCDWVGTPIPFQRCLMFIIAIANKEFQLTAGKFVPVSNVTMMK
IMQETLSFFMFLLQVKDKNEETKQG*

***Odontotermes formosanus* Odorant receptor 10 (*OforOR10*) (OR651438)**

Nucleotide Sequence

ATGCGTGAAGAAGACACCCCGGCCAGAAACGAGGAGGTACCGAGCAATGA
AAATTATGTTGACCGCCACTTGGCGCGCTGTGTGCAGTACCATCAGACAC
TGTTCAAGAACGTGGAGCTGCTCAACTCCGTTCTGAGCCCCATTGAGTGC
GCAGAGGTTTTAAGTGCTTCGGCTCTCTTCGCGTTTGCTGGATTCCAGAT
TGCGGTTGGGCCCCGACCCCGTGCATCTCCCCCGTCAGATCAGTTTCCTCG
CGTATGTCGTGCTGGAGCTGGGACTGCACTGCTGGTTTGCCGACAGCCTC
ACTGCTCAGAGCGCCGCTGTGTGCTTGGATGCGTATTCCAGCCAGTGGTT
CCACGATTGACAAGCGTCCAGCGGTCCCTGTCTTTTGTCATGTTACGAG
CACAGCGCCCCCTCAAGCTGACTGTGGGCCCTTTCGCCACTCTCTCACTA
GAACTGTTTCGGCTCGATTATGCAGACTTCCTATTCGTATCTGACACTGCT
GAGACAATTTAACTCCGAAAATTAG

Amino Acid Sequence

MREEDTPARNEEVPSNENYVDRHLARCVQYHQTLFKNVELLNSVLSPIEC
AEVLSASALFAFAGFQIAVGPDPVHLPRQISFLAYVVLELGLHCWFADSL
TAQSAAVCLDAYSSQWFHDSTSVQRSLSFVMLRAQRPLKLTVGPFATLSL
ELFGSIMQTSYSYLTLLRQFNSEN*

***Odontotermes formosanus* Odorant receptor 11 (*OforOR11*) (OR651439)**

Nucleotide Sequence

ATGACCGTCATCCCGATCATGCTGTGTGCCACAGGATACCTCATGATGCA
CGGTGTCAATGTCACCAGCTACTTCAAGTACCTCGTCCTGTTTCATGCTGG
TCATGTACAAACTGCTGGTGTACTGCTGGTATGGCCAGGATGTTATCAAT
CACAGCGAAGCAGTGCAGACAGCGCTCTGGGGCACCGACTGGTACCTGCT
GTCGCCCCGCTTCAAGCGTCTGGTTTCCATGATGCTCATGAGGGCCGGCA
GGGCTGTCAAATAAGGAACGGCATTTCACGATCTGTGTTTTGCGACC
TTCGCAGCGGTGATGAACACTGCATATTCGTACATCGCACTGCTACGACA
GGTCATCGAACCGTAA

Amino Acid Sequence

MTVIPIMLCATGYLMMHGVNVTSYFKYLVLFMLVMYKLLVYCWYGQDVIN
HSEAVQTALWGTDWYLLSPAFLKRLVSMMLMRAGRAVKLRNGIFNDLCFAT
FAAVMNTAYSIALLRQVIEP*

***Odontotermes formosanus* Odorant receptor 12 (*OforOR12*) (OR651440)**

Nucleotide Sequence

ATGGTGGCAATTGGAGAGGTCTTCCAGTTTGTGGTTAGTCTGGATGACTG
GCAGCAGAGCCTAAGGCACATCATTCTGCTCTTTCTGTCTCTGTCACAAA
TACTGATGTACTGCGGCTTCGGTGAGCAAGTGCTGCAGGGGGGGTGGGAT
GTGGACCACGCTATGTATTCAACACCATGGTACGCGTACTCGCAGAAGTA
CAAGAAACATCTGGCTCTGGTGATAATGCGCGCGCAGCGACCAGTGGAGA
TTACCGTTGGTCATTACTACAGCCTGTCACTGCAATCGTGTGAACTGATC
CTTTCGAACATATACTTCTTCTCCATGTTTCCTGAACCAGATTAACAACAA
ATCAAAATCTGCTGCTCTCAATTGA

Amino Acid Sequence

MVAIGE VFQFV VSLDDWQQSLRHIILLFSLSQILMYCGFGEQVLQGGWD
VDHAMYSTP WYAYSQKYKKHLALVIMRAQRPVEITVGHYYSLSLQSC ELI
LSNIYFFSMFLNQINNKS KSAALN*

***Odontotermes formosanus* Odorant receptor 13 (*OforOR13*) (partial) (OR651441)**

Nucleotide Sequence

ATGGTCATAATGGAGGATACATTTTTTCTCGTATTGCTCGGACCCTTCTT
ATCTATAGCCGCCGGATTGTGTTTTACTGCGTACACAATGATGACGATGT
CTGGGAACTACGGTGAGATAATACAGGTGTTTCTAGTTGTTTTCGCAATG
ATGGCCAAGTTACTGATTTTCTGCTGGCTTGGAATGAACTGACAGATCA
GTCTGAACAGGTCCGCCAAGCGGCGTGGGAAAGCAACTGGGTGGGGACAG
ATACCTCGCATCAACATTCTTTACACATTGTGATAACT

Amino Acid Sequence

MVIMEDTFFLVLLGPFLSIAAGLCFTAYTMMTMSGNYGEIIQVFLVVFAM
MAKLLIFCWLGNELTDQSEQVRQAAWESNWVGTDTS HQHSLHIVIT

***Odontotermes formosanus* Odorant receptor 14 (*OforOR14*) (partial)** (OR651442)

Nucleotide Sequence

ATGGCGTTCATTCAGCAACTGGAAGATTCGCTGAATATCGTCCTGTGTGG
TCACTTTATAATTTTACTGGCCACGTTGTGCTTCGCTGCTTTTTCTGCAG
TTACGAACTGGGGAGATTACGCAAATACGAGTCTAGCAGCTTTAGTTTAT
ATTGTGTTCTCTAGTGACGTGCTTCTGATATGCTGGTTTGGAAGCTCAGCT
TACACAACGGGCTGAGAGTGTGAGAGACGCTGCATTCGGG

Amino Acid Sequence

MAFIQQLEDSL NIVLCGHFIILLATLCFAAFSAVTNWGDYANTSLAALVY
IVFSSDVLLICWFGTQLTQRAESVRDAAFG

***Odontotermes formosanus* Odorant receptor 15 (*OforOR15*)** (OR651443)

Nucleotide Sequence

ATGGATGGAAGTTCGCGGATTGAGAACAAACAGCAGTCGATGAATCACAA
TTCAGAGCTGATTTTGTCAAAGGAAACTGGTGACGAAAATCGTCTGCTCG
AAGACGGATTCCAGAGATACCTGGTTAGCTGCATTCAATGTCACAAAGAC
ATAATTAATTTCTAGATCGCGTAAATGAGGTGACAAGCATAGTGACTTT
CTTGCAAATACTCAACCTACCAATAATGTTGTGCGTCACAGGATTTTACA
TGACTCAGAGCGAAAAGGTAGCAACAGCTTTTTACAACACTGACTGGTAC
AACCAGACGCCAAGGTTCAAACGTCTACTGCCTCTAGCCATCATGCGCGC
CTCGAAACCTGTCAAAGTTAAAGCCGGCGTGTTCTACGATTTGTCTTTTCG
TCACTTTCGCTTCGATTATGAACGCAGCTTACACCTATTAACTATGCTG
ACACAACCTCAATGATTCTGAATTAA

Amino Acid Sequence

MDGSSRIENKQQSMNHNSLILSKETGDENRLLEDGFQRYLVSCIQCHKD
IINFVDRVNEVTSIVTFLQILNLPIMLCVTGFHMTQSEKVATAFYNTDWY
NQTPRFKRLPLAIMRASKPVKVKAGVFYDLSFVTFASIMNAAITYLTML
TQLNDSN*

OforGRs

***Odontotermes formosanus* Gustatory receptor 1 (*OforGRI*) (OR651376)**

Nucleotide Sequence

ATGACAGTGATCGTGTTGACTGGAGCCCTGGTGGAACATGCACTTAGTAA
GGCAAGTGGCATTATGACAGCAGTAGCATGCACAGACAACATAATCAATG
CTTCCGCTACTACTTCACAAAGACTGGCACATATGACCAAATGTTTGCT
GTTATGGACTACAGTCTTACAACGGCCATTTTAACATTAATTACCAACTT
CATTGCCACATTCACATGGAACCTTTCGAGATTTATTCATCATACTGGTGA
GCCTTGCGCTCAGTGAGAGATTTTCGCTCTTCAATGAGTACCTTGACTCA
GTCCGGCGGAAGTTGATGCCAGAAAGCTTCTGGAGCCAAATGAGAGAAGA
ATACAACAGTCTCTCACATCTCACCAGGACTCTTGATTCTTGCATTTCCA
AGATTGTGCTTGTGTCCTTTGCAAGTAACCTGTACTTCATTTGTCGTCAG
CTCCTGAGTAGTCTGAGCCCATTAGATGGTTTAGTAGACACTGTATACTT
CTGCTGGTCATTTGGCTTTCTGTTGTTTCAAGAACAGTGACATTGTCTCTGT
ATGCATCAAGAATATATGATGAAAGTCTGTTGCCAAAGAGGGTACTGTAT
GATGTTCTCCAGAAAGCTACAAAATAGAGGTATCAAGATTTCTGGATCA
GATAGTGACAGACAGAGTGGCACTATCAGGAATGAACTTTTTCTACATCA
CAAGAACCCTGTTGTTGACATTTACCACAGATTGCAGTACAGATGGTGTA
CTTTTGCTTGTCTTTTGGATATGTACTTCTACGCATAGTTTCGGTGTCCC
TTTCTGCAGCAAGTATCAATGA

Amino Acid Sequence

MTVIVLTGALVEHALSKASGIMTAVACTDNIINAFRYYYFTKTGTYDQMFA
VMDYSLTTAILTLITNFIATFTWNFADLFIILVSLALSERFRLFNEYLDS
VRRKLMPEFWSQMREEYNSLSHLTRTLDSKISKIVLVSFASNLYFICRQ
LLSSLSPLDGLVDTVYFCWSFGFLFRTVTLISLYASRIYDESLLPKRVLY
DVPPEYSYKIEVSRFLDQIVTDRVALSGMNFYITRLLLLTFTTDCSTDGV
LLLFWICTSTHSFGVPFCISKYQ*

***Odontotermes formosanus* Gustatory receptor 2 (*OforGR2*) (OR651377)**

Nucleotide Sequence

ATGCTGACATCTTACGGTTATCCAAGGAATTTGGGCGACGATGCAAGCT
GTGTGCTGCCGCACTGCTGACCGCCTCCACAGCCGAACACCTCATGGCTA
TGTATTCGCGTCTGCTGTCCGCTCTGCCAGATTCCGGCGGGAGGTTTAGAT
ATTATCCGTGTCTTCTTCGTGACCTGGTTCGAGCAGGTATTTAAAGTGAC
AAACTACGCTCTCTGGAAGGCGGTGCTGCTGCAGCTGTCCAACCTTCGTGG
CTACCTTTACGTGGAGCTACATGGATATGTTTGTGACCCTCGTGAGCATG
GCGCTCACACAGAAGTACCTGCAGCTGCACGAGCGACTGACGACCGTGAG
CGGCAAGACCGTTTCGTTGAAGTTCTGGCGCGAGGCTCGTCAGCTGTACG
TCGACCTGTGCTGCCTCACACGGATGGTTGACCATCACATCTCACACATA
GTGCTGCTGTGCCTGATCAGCGACCTCTACTTCATCTGCCTTCAGCTGTT
CAACAGCCTCAAGAAAGTGAAGACTTTATATGGATACGTTTTCTTCTTCT
ACTCTTTCGGCTACTTGCTGTTCCGAGCATGCTTGATGTGCTTCTGTGCT
GCATTCTTGAACGAGGCCAGCAAGAAACCCAAGGCAGTCCTGTACACAGT
GCCGTCCGTCAGCTATAACACGGAGGTTGAGCGATTTATCGATCAAGTGA
CGACCAATGAGGTGGCACTAACTGGACTTCGCTTCGTGACGTTAAACAGA
CGCTTAGTTTTGACTGTCATTGGTTCAATCATGACGTATGAACTGCTTCT
CGTTCAACAAGAAGACGTTTCAGGATTTTGGCAGTGAAGAACCACTAAACG
CGTCCACCGTTACAATGGGTTGA

Amino Acid Sequence

MLTSYGYPRNFGRRCKLCAAALLTASTAEHLMAMYSRLLSALPDSAGGLD
IIRVFFVTWFEQVFKVTNYALWKAVLLQLSNFVATFTWSYMDMFVTLVSM
ALTQKYLQLHERLTTVSGKTVSLKFWREARQLYVDLCCLTRMVDHHISHI
VLLCLISDLYFICLQLFNSLKKVKTLYGYVFFFYSFGYLLFRACLMCFCA
AFLNEASKKPKAVLYTVPSVSYNTEVERFIDQVTTNEVALTGLRFVTLNR
RLVLTVIGSIMTYELLLVQQEDVQDFGSEEPLNASTVTMG*

***Odontotermes formosanus* Gustatory receptor 3 (*OforGR3*) (OR651378)**

Nucleotide Sequence

ATGACCTTCTACGGCATAGCAGCTGCCACTCTCGTCTTGTTCTGAAGCT
GGCAAGGGGCTGGCCGCAGCTGCTGGTGCAGTGGAGCACCTGGAACAGG
CTCAGCGCCGCTACGGCACACCACGGTACTTACGCTTCAAGATTCGGTGC
GTCACCGCCGCACTTCTCTTGGGAGCAACAGTTGAACACGTGCTCAGCGA
TTACTACACCGTGTCTCTATAGCGCAGGATGTCAACTCCACCAGCAGTG
TCCTTCGCCGGTACATGCTGAAGACTCACCACCATTTGTTCCAGTACCTC
GGATACTCCACGCATGCGCATTCTTGGCTACGATTGCCCATACTGTGGC
CACATTCACCTGGACCTTCATGGACCTGTTTCATCGCCATTACCAGTATCG
CTCTGACAGAGCGCTTCCGTCTCTTGAACCGACATCTGCAGGCCGTCAGG
GGGAAGACGCTGTCCGAGCAGTTCTGGAAACAGACACGAGAGAACTACAC
CAGCCTGACGCATCTCACCGAGACGCTCAATCTCTGCATATCCCACATCG
TGCTCATGTCCTTTGCAAGCAATCTGTACTTCATCTGCCTCCAGCTCCTC
TATAGTTTGAGGGGGCTTGCCGACTGGTACTCGCGGGTCTACTTCTACTG
GTCGTTTCGGGTTCTCTTGGTACGAACAGTCACCGTTTCTCTCGCCATCG
CTAGCATCAACGACGAGAGTCGTCTGCCCAAGTCCGTCCTGTTTGCTGTT
CCTTCGGACGGCTACAACATGGAAGTGTCGCGGTTCTACAGCTGGTCAC
CACGTCGCAAGTGGCGCTCACCGGCCTGAACTTCTTTTCCGTGACCCGCC
CAATGCTGCTGACGATGGCGGGTACCATCGCCACTTACGAGGTCGTGTTG
GTGCAGTTCAGTCACATGGACAATAA

Amino Acid Sequence

MTFYGIAAATLVFLKLARGWPQLLVQWSTLEQAQRRYGTPRYLRFKIRC
VTAALLLGATVEHVLSDYITVSSIAQDVNSTSSVLRRYMLKTHHHLFQYL
GYSHACAFLATIAHTVATFTWTFMDLFIAITSIALTERFLLNRHLQAVR
GKTLSEQFWKQTRENYTSLTHLTETLNLCSHIVLMSFASNLYFICLQLL
YSLRGLADWYSRVYFYWSFGFLLVRTVTVSLAIASINDESRLPKSVLFAV
PSDGYNMEVSRFLQLVTTSQVALTGLNFFSVTRPMLLTMAGTIATYEVVL
VQFSHMDN*

***Odontotermes formosanus* Gustatory receptor 4 (*OforGR4*) (partial) (OR651379)**

Nucleotide Sequence

ATGTTTTGGGTAGCACCACACTGCGTAACTGGAGAAACAGGCTGTCGCCT
GCTGCAAACCTTCTTTTGGCGACATTTTATACAGCATCGTCTTCATCGCCG
TTTCTACTTTTCTTGTTATGTACTATTCCAACATCTGGAATATCACGAAC
GTGTTTTCCATTTGTAATGTCAGTGAGAAGGTAATAGCCTTCAGCGTCAT
TCTGCAGTTCGTGTTGTCGGCGTTTGTGTGTCTCCTAAAGCGGCACACAA
TAATGAATATTGCAAATCAGCTGGCAGGTCTTAACGCCTCACTCAAACGT
TCCTGTGCCTGTGTTTGGAAGAAGGTCTGCATTATCCTCATGTCTCATCT
CTCTATCAGCCTCCTGAGTGTAGCCAGTTGCTTTTTATCGGACCTGTTTT
CTCGCATGCGAGGTCCAAATCGTGTGTCATTTATAACCTTCAACGCAATG
ACTTCTGCCTGCTTTCTTACTGAGTTTCAAATCGTTTGTTTCTTGATGCT
TTTGAAGCAACTTATTTCCGACTTGAACGACTCCATTCGTGATCTTGGA
GAATAAAAGGTAACAAAGGTAACCCCTGTTCTTGTTCCCAAATGTTACCA
CTGAACAGCACGACACCAGCGTTCGTCTCTTCAGCCTACGAAAAGCTGCA
ACAGAATACCACGAACAGCGATTCCCACAGAACAAAAGTGATTTTCGTAC
GAGATATTCAGGATTCTCTTTGTGCAGCCTCTGAGACACTGAACTCTGCA
TATTCTTTCCTGCTGCTCTACACCTCAGCGAAGATGTTTCATCTGTCTTAC
CCACAGTCTCTACTTCATTCTCCTACGCCTCTTCATAACCGGCTCCAACA
CCTGTGACGTGGGGTCACCATATTCATATTACATGTGGTTCCTGCACTAC

TCCATCAAGCTGGTGTGGCTGGTCTTCTACAGCAGCTCGGCTATCCAGCA
GGGAAACCGCACTGCAGTTCTGGTGCACAACTGATCACCAAGACGCAGG
ATCCTGGGCTGAGAGAGGAGCTTCGTCTGTTCTCACTTCAGCTC

Amino Acid Sequence

MFVVAPHCVTGETGCRLLQTSFGDILYSIVFIAVSTFLVMYYSNINWITN
VFSICNVSEKVIASFVILQFVLSAFVCLLKRHTIMNIANQLAGLNASLKR
SCACVWKKVCILMSHLSISLLSVASCFLSDLFSRMRGPNRVSFITFNAM
TSACFLTEFQIVCFMLLLKQLISDLNDSIRDLGRIKGNKGNPCSCSQMLP
LNSTTPAFVSSAYEKLQNTTNSDSHRTKVIFVRDIQDSLCAASETLNSA
YSFLLLYTSAKMFICLTHSLYFILLRLFITGSNTCDVGSPYSYMWFLHY
SIKLVWLVFYSSSAIQQGNRTAVLVHKLITKTQDPGLREELRLFSLQL

Odontotermes formosanus Gustatory receptor 5 (*OforGR5*) (OR651380)

Nucleotide Sequence

ATGAGGCTCATCGTCGTGTTGATCATGGTGACATGCGTACGGGAAATCTT
GTACCAGGCACTGGAAAGCAACCTGAGCAACTATTTGGTACTGATGACGT
ACTGGTACCAAACATTGGTACGTGACACGTTGGGTCTCATGTGGTACCTA
CTGTGCTACCTGCTACGAAGCACTGCTCAGCACCTGGCCACCAGCTTTCA
GAAGGATGTAGACACTGCTGCGCGCCCCAGCCTGGTAATCGCACGTTACA
ACGCGCTGTGGCTACAGTTCAGCCGCGTGGTACGTCAGACCGGGGTGGCT
ATGTGCTACACGTATGGCTACTACGTACTCTACCTGTTCTCATGAGCAC
CGTGTCCCTGTACGGGCTGTTATCCACCCTGACAAAGGGCTTCCATTTGC
GCCTCGTCTACCTGGTGGGCGACAGCATTATTACTGGCACCGAGCTCTAC
ATCATCTGTGACGGTGCCAATTCCGTCACCCGAGAGGTGGGTCTAAGATT
CCAGGGGAGGCTGTTGGACATCAGACAGACACCATTGGGCAATAAAACGG
AGAAGGAGGTTGACGCCTTCTTGAGAACCATCGAACTGCGTCCGCCGGAA
ATCAGTTTCGGAGATTACGTCATCGTGAACAGAGGAATGCTACTGTCATT
GGGTTCCATGATGGTCACGTACCTCGTGGTCCTGCTGCAGTTGGGGATTG
CGGGAACATCCGATCAAAACGACGCTGCGAACGCTACTACGTCATAG

Amino Acid Sequence

MRLIVVLIMVTCVREILYQALESNLSNYLVLMTYWYQTLVRDTLGLMWYL
LCYLLRSTAQHLATSFQKDVDTAARPSLVIARYNALWLQFSRVVRQTGVA
MCYTYGYVLYLFLMSTVSLYGLLSTLTKGFHLRLVYLVGDSIITGTELY
IICDGANSVTREVGLRFQGRLLDIRQTPLGNKTEKEVD AFLRTIELRPPE
ISFGDYVIVNRGMLLSLGSMV TYLVLLQLGIAGTSDQNDAANATTS*

***Odontotermes formosanus* Gustatory receptor 6 (*OforGR6*) (partial) (OR651381)**

Nucleotide Sequence

ATGGCGGTATCGATTCACCTGGCACTCGATGGTGGTATCGTACCTCTGCAT
GAAAGCATCTAGGCGACTGGCGAAGCGCACTGCAGTGCTGGTACACAGGC
TACTGAGCAAGGCCAGGGATCCTGAGACCAAAGTGGAGCTTGAACCTTTC
TCGCTGCAGCTCCTACATCGGAAGGTCCGATTCACAGCCTGCGGGTTCTT
TCCTTTGGACTTCACACTGCTATACTCGATTGTCGGCGCTGTTACGACGT
ATCTGGTCATACTGATTCAGTTTCAACTCACGTTTGCGACTGGAAGCAGA
TTTGCGACAAATACGTCATTATCACCACCTAACACCACCATGATTTC

Amino Acid Sequence

MAVSIHWHSMVVSYLECMKASRR LAKRTAVLVHRLLSKARDPETKVELELF
SLQLLHRKVRFTACGFFPLDFTLLYSIVGAVTTYLVILIQFQLTFATGSR
FATNTSLSPNNTTMIS

***Odontotermes formosanus* Gustatory receptor 7 (*OforGR7*) (OR651382)**

Nucleotide Sequence

ATGGGGCACATTTCAACTGTGCTTCGCAA ACTACTGCTTGCAATTCATAC
TGATCCAGCAACTCTGTCTGAACTGGAACACTTCTTACAACACGTCGCTC
TACGTAAGTTCAAATTCACGGTATTCGGATTCCTCACCCTCGATTTGTCT
CTGCTAGTCTCCACGATGGGCGCCGTGGTCACGTATCTTGTGATCCTCAT
GCAGTTCCAAATGGCAAGTAACAGTTCAACTGCATGTACCAAAATGTGA

Amino Acid Sequence

MGHISTVLRKLLLAFTDPATLSELEHFLQHVALRKFKFTVFGFLTL DLS
LLVSTMGA VVTYLVILMQFQMASNSSTACTKM*

***Odontotermes formosanus* Gustatory receptor 8 (*OforGR8*) (partial) (OR651383)**

Nucleotide Sequence

ATGGCGAAGCAAACGCACGTTGAAGTCCGCAGAGTCCTGAGACCACGTGA
CGCCGTGCACCAGACGCCTGGCCGCTGGGGACACAAGGACGCTCCTTGGA
ACACGGAGACGGATGAAGTCAGGGTTCAGACAGCGGACGTCACTACAAAT
CTTCCGGACGTCAGGGACGCTGAAGATAAGAGCATCAGGGACACCGCAGT
GGCATATCCTGACGCCCAAAGTTTCCACCGCGCCATCTCCGCTATAGTCG
TGCTGGGGCAGTGCTTCGGTCTCCTGCCTGTGCATGGCGTAACGGCGTCA
AGCGCGCAAGGTCTCAGCACTGCAGCCATGGAGGTTTATTGTACTCTAAC
C

Amino Acid Sequence

MAKQTHVEVRRVLRPRDAVHQTPGRWGHKDAPWNTETDEV RVQTADVTTN
LPDVRDAEDKSIRDTAVAYPDAQSFHRAISAI VVLGQC FGLLPVHGVTAS
SAQGLSTAAMEVYCTLT

***Odontotermes formosanus* Gustatory receptor 9 (*OforGR9*) (OR651384)**

Nucleotide Sequence

ATGTCCATGAATCGGCCAGTGATATCCGTCCTTG GTTTCGTGACCATCAA
TAAAGGAACGGTAAAATCTTATGCGTCCACACTGGTGACCTACATGATAG
TCCTGTTGCAGTTCAGCATGGGACAGCATAAGCCTGACAATAACTGCAAT
GTGCTGCAGAACACAACAGAGACAAACTGA

Amino Acid Sequence

MSMNRPVISVLGFVTINKGTVKSYASTLV TYMIVLLQFSMGQHKPDNNCN
VLQNTTETN*

OforSNMPs

Odontotermes formosanus Sensory neuron membrane protein 1 (*OforSNMP1*) (OR651358)

Nucleotide Sequence

ATGTTTCGCCTTGGGTTCAGGAGTTGGATTCTACGGTTTCCCGTCTCTAAT
CCGCAGCCAGATAGCATCAAATTTAGCTCTGAAGAAGGGATCTGATTTAA
GGAAACTGTGGTCCAAGATTCCTGATGGGATTGACTTCAAAATATATATG
TTCAATATAACAAATCCAATGGACGTACAAGCAGGAAAGAAACCAATAGT
GACCGAAATTGGACCATATTTCTATGAAGAATACAAAGAGAAGCTAGACC
TCAAAGACCACAATGAAGACGATACAGTTTCATTCAATCCACGAGATTAT
TTTATATTCAAGAGAGAGAAATCTGGAGGTTTAACTGGAGATGAAATCAT
CACCATAACCACATATGCCTATACTGGCAATGGCACTGGCAGTGGAGCGCG
AAAAGCCAGCGGCCCTGAAGCTAATCAACAAGGCAATACCTCACATCTTC
GGGCATCCGACCTCGGTCTTCTTAACGGCGCCTGTGAAGAACATTCTGTT
CGATGGGATTCCCCTGTACTGCAACGTCACAGATTTTTCCGCCAAAGCCA
TTTGCTCAGAAATAAGGAAAAACGACAAAAACTTTCTGAAATTAGGTGAA
GATATCTTCGGGTTTTTCATTCTTCGGAACGAAAAACAACAGCGCTGGAGG
AAGGTTCCGCGTGAAACGTGGGATTCAGGATATTAAGGAGGTGGGGCGAG
TTGTGGAGTACGAAGGGCATAAACAACCTGTCAGTCTACGATGGAGAAGAG
TGTAACAAGTTCAGAGGAACGGACTCCACCATCTTCGCGCCCTTCCTTAC
TCCAAGCGACAAGATCGAAGCTTTTGCTCCCGACCTCTGCAGGTCTATAG
GGGCTGTGTACAAGGAGTCGATCGTGTACAAAGGTATACACAGCTATAGT
TACGGCGCCGATTTTCGGCGACATGTCTACCGACCCGGAACCTCAAGTGTTT
CTGTACGACTCCAACCACTTGCATGAAGAAAGGCATTCACGACCTGACGA
GATGTACAGGGGCACCCCTCATGGCGTCACTTCCTCACTTCTACGACGCC
GCAATGGAGTATCAGACGGGAGTGATCGGCCTCAACCCTTCGAAAGAGAA
ACATGAGATACTGATGGTATTCGAACCGTTGACGTCCACACCTCTGGTTG
GATACAAGAGACTGCAGTTCAACATAGATGTTTCATGCTATTGACAAGATT

GACCTCATGAAGGATATTCCCACAGTACTTCTCCCCGTATTGTGGGTGCA
AGAGGGAATGGAAGTGAACAAGAGTACCTGGACAAGGTAGCCAGCATCT
TCAAGATCATAGGCGCAGTGGACGTGGTCAAGTGGATCCTGATGGTGTTA
GGAGGAGGATGTGGTGCAGCAGGCGCAATCTTAGGGTACCGCAAGAAGTC
AAACGAAATGGACGTCGATGTGTACCAAGTGTGCCGAAGAAACCAGCAG
GAATCACACCTCTGGAGGTGCAAACGCTACCCAGATACTGA

Amino Acid Sequence

MFALGSGVGFYGFPSLIRSQIASNLALKKGSDLRKLWSKIPDGIDFKIYM
FNITNPM DVQAGKKPIVTEIGPYFYEEYKEKLDLKDHNEDDTVSFNPRDY
FIFKREKSGGLTGDEIITIPHMPILAMALAVEREKPAALKLINKAIPHIF
GHPTSVFLTAPVKNILFDGIPLYCNVTDFSAKAICSEIRKNDKNFLKLGE
DIFGFSFFGTKNNSAGGRFRVKRGIQDIKEVGRVVEYEGHKQLSVYDGEE
CNKFRGTDSTIFAPFLTPSDKIEAFAPDLCRSIGAVYKESIVYKGIHSYS
YGADFGDMSTDPELKCFCCTPTTCMKKGHDLTRCTGAPLMASLPHFYDA
AMEYQTGVIGLNPSKEKHEILMVFEPLTSTPLVGYKRLQFNIDVHAIDKI
DLMKDIPTVLLPVLWVQEGMELKQEYLDKVASIFKIIGAVDVVKWILMVL
GGGCGAAGAILGYRKKSNEMDV DVSPSPKKPAGITPLEVQTLPRY*

***Odontotermes formosanus* Sensory neuron membrane protein 2 (*OforSNMP2*) (OR651359)**

Nucleotide Sequence

ATGAAGAAAGTGTCACTGAGGAATCAGTCCTCCGTATGGCTGGTCCTGTC
TGGGATGACCATCTTCGTGCTAGGGGCCGTGCTGGGATGGTATGGGTTC
CGGCGTTAATAAGAAGCCAAATTACTGCTAACCTTGAGTTGAAGGAAGGA
GCTGAGAGAAGGGAAATTTGGGAAAGGGTTCCTTATCCGATGGATTTCAA
GATATACTTATTCAACGTAACAAACCCGATGGATGTTCAGAAGGGAGCAA
CGCCTGTCGTT CAGGAAGTGGGGCCGTACTGTTACAAGGAAGACAAAGAG
AAGGTCAATATTGTGGATCATGAAGACGATGATACAGTGTCTTCAACTT
GAAAGACACGTGGTATTTCAACAAGGATGAGTCGGGCACCCTTACTGGCG
AAGAGAACATCACCATTCCGAATGTACTACTTCTGGGTATGGTTTTGACG

GCACAGCGCGAGCAGCCCATAGCCCTGAAGCTGATCAACACAGCCATCCC
ACACATCTTCGACAACCCGAACCTCTGTATTCGTCACAGCCCCAGCAAAA
ATTTGCTGTTCTGAAGGCGTCGCGTTCAATTGCACATCCAGTGACTTCTCT
ACGAAGGCGGTCTGCTCAGAATTGAAAAAGAGAGCCCATAATTTCCACAG
AATCAGCGAAGACATCTACACGTTTTCTATTTTCGGATTCAAAAATGGCA
CTGTGCGGGAGAGGTTTGAGGTAAAGAGAGGAATGGAAGACATAAAGGAT
TTAGGCAAAATGGTGGAATTCAAGGATCAGAAAGTACTGACTGTCTGGGA
CGGAGAAGAGTGCAATGCGCTCAGAGGAACAGATTCCACCATCTTTCCTC
CCTTCCTCACAAAGAAAGACAAGATTGAAGGTTTCATTCCAGACATGTGC
AGGGCATTAGTGGCGGAGTACCAGTACGCCACAACGTACAGAGGAATCCG
GTCTTACAAATACAGCGCAGACTTGGGGGACACATCGACTGACCCGGAAC
TCGGGTGTTACTGCAGGACGCCAACTACGTGTCTCAAGAAAGGGGTTCAC
GATGTCTCGCGGTGTGCAGGGTACCCCGTCGTGATGTCACTGCCACACTT
CTACCTGGCTGACGACGAGTACCTGGATGGCGTAGTTGGCCTGAACCCTA
CACAGGAGAAGCACGAGGTCACCTTTGCTCTTCGAACCGCTGACAGCTACA
CCACTTGAAGCTTACAACAGACTGCAGCTGAACATCCCCCTGCACCGCAC
CGACAGCATCGACCTACTGAAGAACATCAAATCAACGCTTCTTCCTATCT
TGTGGATGCAGGAGAACATGGAGCTCCATCAAGAGTACGTTGACAAGATT
TTGGACCTCTTCCTTATAATCAGCATAATGGGCGCCATGAAATGGATAAT
GGTAGCTGTTGGAGGAGTTCTCACTGCCACTGGATTCTTCTTCATTATGC
GGAGAAAGAACGATCATACTGTCATCACAGAATTACCACCCATCGCCTTA
AAACCCACAGGGAAATCGGCCAAGACGGAGCATGTTATCGAAAAATAG

Amino Acid Sequence

MKKVSLRNQSSVWLVLSGMTIFVLGAVLGWYGFPALIRSQITANLELKEG
AERREIWERVYPMDFKIYLFNVTNPMDVQKGATPVVQEVGPYCYKEDKE
KVNIVDHEDDDTVSFNLKDTWYFNKDESGTLTGEENITIPNVLLLGMVLT
AQREQPIALKLINTAIPHIFDNPNSVFVTAPAKNLLFEGVAFNCTSSDFS
TKAVCSELKKRAHNFHRISEDIYTFSIFGFKNGTVRERFEVKRGMEDIKD

LGKMVEFKDQKVLTVWDGEECNALRGTDSTIFPPFLTKKDKIEGFIPDMC
RALVAEYQYATTYRGIRSYKYSADLGDTSTDPELGCYCRTPTTCLKKGVH
DVSRCAGYPVVMISLPHFYLADEYLDGVVGLNPTQEKHEVTLLFEPLTAT
PLEAYNRLQLNIPLHRTDSIDLLKNIKSTLLPILWMQENMELHQEYVDKI
LDLFLIISIMGAMKWIMVAVGGVLTATGFFFIMRRKNDHTVITELPPIAL
KPTGKSAKTEHVIEK*

***Odontotermes formosanus* Sensory neuron membrane protein 3 (*OforSNMP3*) (partial)**
(OR651360)

Nucleotide Sequence

ATGCCTGTGGCGGTGTTCTTCAATGTCTACCTATTCAACGTAACCAATCC
TGATGAAGTGCAGAAAGGAGCCAATCCAGTCGTGAAGGAAATCGGACCTT
ATGTATATGATGAGTACCGAGAGAAATTCGACATCGAAGACAAAGGTGAT
GGCACTCTTTCCTACTTACAAAACCTCTACATTTTATTTCAACAAGGAAAA
GTCGGGGAACCTCTCAGAAGATGACGTAGTTACTGTACTGAACTTTGCGC
TCGTGGGTACGGTCTTAAAGGCACAGAGATACCTTCCTTCCTCCATGACA
CTAGATGGTGTTTTTAAGGAGATATTCCACGGGTCAGAGAACGTATTTCA
CACTGCCACAGTGGGGGATCTGGTTTGGCGTGGGGTAAAAGTCGTGACTT
GCACGGAGACAAATAAGACGTCGCCTGAAGCTTCGATGATCTGCAGTGTA
CTGAAAAGCCTACTGCCGGCTATGATGACTGAACATGAACCAGGGATCTT
CAAGATGGCGTATTTTCGTTACAAGAACAACACAAATGATGGTCGATACC
GCATTAACAGCGGAATTTTCG

Amino Acid Sequence

MPVAVFFNVYLFNVTNPDEVQKGANPVVKEIGPYVYDEYREKFDIEDKGD
GTLSYLQNSTFYFNKEKSGNLSEDDVVTVLNFAVGTVLKAQRYLPSSMT
LDGVFKEIFHGSENVFHTATVGDLVWRGVKVVCTETNKTSPEASMICSV
LKSLLPAMMTEHEPGIFKMAYFRYKNNTNDGRYRINSGIS

***Odontotermes formosanus* Sensory neuron membrane protein 4 (*OforSNMP4*) (partial)**
(OR651361)

Nucleotide Sequence

ATGTGTTTAGGTGTGTCTGCAATCTATTCCTTGCCACATTTCTACAACGC
TTCTCCTGACTACCAACAGTACATCCAGGGTTTGAATCCAAACAGGAAGG
AACATGAGACATTCCTGTATATTGAACCGGAAACCGGTACCGTTCTCCGG
GGGTTCAAGCGGATGCAGATGAATATATTCCTTTCTAAAACGGATGTACT
AAGCTCCCTAAATAATGTGTCCGAAGGTCTCTTTCCTGTCTTCTGGGTTG
AAGAGGGCATTGAACTGGATGACAAGGATCTCACTCCAATTCACCGTCTG
TATACACTCATGTATGCCTTCGCCATTATCAGGTGGTTACTTGTAGCAGC
TGGC

Amino Acid Sequence

MCLGVSAIYSLPHFYNASPDYQQYIQGLNPNRKEHETFLYIEPETGTVLR
GFKRMQMNIFLSKTDVLSSLNNVSEGLFPVFWVEEGIELDDKDLTPIHRL
YTLMYAFAIIRWLLVAAG