

Identification of Genes Involved in Chemoreception in *Plutella xylostella* by Antennal Transcriptome Analysis

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Supplementary Table S1. Primers for RT-PCR expression analyses of *P. xylostella* ORs and IRs

Gene Name	Forward Primer (5'-3')	Reverse Primer (5'-3')
ORs		
PxylOR2	CTCACCGCCAACACCATCAC	CAGCAGCCACGAGCAGAACAT
PxylOR1	CTCCCACTTCTTCACCATGTACC	CATCCTCCCAACTATCACCATC
PxylOR3	GCTGAGATTTCTGCGTATTGGG	ACGCAGATGCTACACGCAGTTAT
PxylOR4	GCCCAGGACTTGCTCTTGTC	CAGGGTTTCGGGATCAGGTC
PxylOR5	TGTTATCACAAGCACAAGGGAA	ATTCATCGTCGTAGATATGTAGAAGTG
PxylOR6	ATGCAGATGACGCTGATGGTA	TCAATGGAGCAAACCTGACACG
PxylOR7	TTGTGGCGTCACTCACTGTTC	TTGTAACCTGTTGAATATCGGTATTCC
PxylOR8	GATCGGTCATGTTTACATTACGAC	TATTAGGAGCAAATCCAGAGTGC
PxylOR9	GCTTCAGTATTAGTCGTGGCA	AATATCTGTCTGGAGAAAGGAGA
PxylOR10	GCACGCATTGCAGGAACAAGA	GGACACCACCGACAGCAGGAT
PxylOR11	ATAGGGATATGATGCGTCACAAGG	GTGCGGTAGTCAAACGGGAGT
PxylOR12	AAGAATCTGATCGCGTTCACC	CCAGGAATAGGCAGCAAAGTA
PxylOR13	GCCGTGTTGGTTTGGAATC	ACTGCATGTGACGCAGAAGA
PxylOR14	TTTTAGTGTTTCTATACGTGCTGG	AGTCCTCACTGAGCGTGTTGT
PxylOR15	GGCGTCTCAACCCATATCCAC	CACCAGCAAATACATCAGTGTCCA
PxylOR16	TTTCTTCGGGCTGAATGTCTC	AGGCTCAAGCAGCACGATTAC
PxylOR17	GCACTTATTTATCCCAACCCG	GACCAACCCTTTCTTTATGTATG
PxylOR18	AATTACCGGCATTTGGTTTCG	TTCACCGATAAATATGTCACTGTCC
PxylOR19	CCAAAGCGGATATTGAAGCC	GCGTTGGTGTCATAGGAGGAG

PxylOR20	TCTACTTTCTTTACGATGGGCTTCT	ACCCAATACGAAGTACGCACG
PxylOR21	TACATTCTCGTTACTAATCGCAGAC	GGTAAACATTCCACCTTCCCT
PxylOR22	TCTGTGGCCGCTTATTTTACA	CAGGCCCATGCTACAGTGTTA
PxylOR23	CGGTTGGAAAGTGTTAGCCCTGTG	GTTTCGCCCCGCAAATTCATCG
PxylOR24	CTGTCGTCTTGCGGTACATCC	GGGTAAACAATTAACCTTCCCTTTC
PxylOR25	CTGATCCCGAGTTTCCATCCT	AAATGCCAGTTTCGTCAATCC
PxylOR26	CTTCTGGCTCCTAACCTGTGG	CGAAATTGTCGCTCAACTCTG
PxylOR27	TATCGGCACTTACAACATCCG	CATTAGCAGGCTCGTCATTCTG
PxylOR28	GAAGCTCCTAAATACTATGAAAGG	TTAATCTCAACGGGAAACAAC
PxylOR29	CAACCTCATTGGTCCAGACAC	CTCCGAACAGGCAAATAAGAA
PxylOR30	GCTTATCGCAAGCTACGCG	GTGACCGTGAAAAATGAGTATAGAAAC
PxylOR31	ACCACGCAGATACGGATACTGA	AGCTCCACGACTATGCACGAC
PxylOR32	TTGCCTCTACTGCTGATGGTG	AATGAACCCGCTCAGACAAAT
PxylOR33	GTCCAGTATCGTCCTCAACGGC	TGAAAGCGGTATGCAAACAA
PxylOR34	TCTCCCTATGGCTCAATGTAAC	CACCGAGGACTCACTCAACTC
PxylOR35	CAATTATTATTTCTTGAGCGACGAG	CAGTAGCAAGGAGGCGAGGAT
PxylOR36	CTTTGAGGATTCTGGCGTTTG	AGATATGGCGATCTTGGTGGA
PxylOR37	GGCAATAATCTGGTACAAGCAGGAC	CCGCTACAAACTTCAAACGCATAA
PxylOR38	TATACGTGAATGGGTGGGACG	CCTCCAAACAGTGTTGCTGCTA
PxylOR39	TAGACATCGAGGCCCTTTACC	GCACTTCAGTTTCAGGAGCAA
PxylOR40	ACTCTGCCATTTCAATTCATGTTTCT	AGCTCGTAAGCTGGTGACTTCG
PxylOR41	CCCACTATTTCACTGCTACGACC	GCAAACCTTACTATTTCCCGATG
PxylOR42	CATACGAGTTTTTCGGTGATTTG	ATGACCATGCAAAGAGCTACAC
PxylOR43	AGAAACGTCTTTGGACCACCT	CACTGCTCTTATCACCTGCTCAC
PxylOR44	TCGGAGTGCCCATCATGTTCT	CCCGTCGTAAGCCGTGTAGC
PxylOR45	GTCAAATTGAAGCCATGTTGATC	CGGCGACTGTGGTACTGTAGG
PxylOR46	AGGATACAGCCAGATGAAACG	TTGCTCACATACAGCACGATG
PxylOR47	GCAGGTGATCCTGTGGCTCTA	TGCTTTCTCCTTGCTCGTCTC
PxylOR48	AACGATGGAAGGGAGTGGAGA	AGGCGTGTTGATGAGATGTAGC
PxylOR49	TGTGCGGATGCTCCAAGTGAG	GTGGTTGGCGAGGATTTCCCT
PxylOR50	TACGTGCCGTTTCGATAAATACAGT	GGCGAGCTGGCTCTTACAAAG
PxylOR51	CGGCTACTGGCTCTACGTGCTG	CCCGCCTTAGTGAGTTGAATGG

PxylOR52	CGCCTAATACAGAGTCTGGACGA	GTAGAATGCTCAGTTGAGTTTTGCT
PxylOR53	TTCGTTGGCATTTCATCTTT	CAACAGCACCCCTCACAAACCT
PxylOR54	GCGAAATCTTCAATTATTTGCC	TGGTTGTGTCTGGTCCCTGG
IRs		
PxylIR1	CAATATCGTCGCGAGAAAGACACA	GACACCAAAGCCATAACAGTAAAC
PxylIR4	CCTGCCTTAATGATTTCTGCGTT	CTGTTTCTGGATGAGGTCTGTCTG
PxylIR2d.2	AGAGAGATTCATAGAGAGCGGGA	TGGTAAAGTATTTTATTGGGTGC
PxylIR7d.3	ACCTTAGTACCAGTATTTCCCGC	TCCTCCCCTTGCCTATGTCC
PxylIR8a	TGGACAGAGAGAATGAGGAGGAG	GACACAGAAACCGTAGGGATCG
PxylIR21a	CTGTATATTGATGGTCTTGGGGC	TTGTGGTGATCTTCGTGGTCTTA
PxylIR25a	GTCGCTACTGGTGATTTTGGTG	TATGGACTCTGGGAGGATGTCTG
PxylIR41a	TTCATACCGATGGACAAAGACAG	AATTCACCCACCGACAAAACCTC
PxylIR68a	TCTTGGAACGCTGATCTTGC	CTTTATCGTGTCTGATGGTGACG
PxylIR75d	CCATTCCTGGTTCCTTTTGA	GGAGAAGACGACACCGCTG
PxylIR75p	GCACTGCTTCTGTATGTGACTTCG	ATTGGGTTTCTTCCCTTTTGGT
PxylIR75q2	GACCTGCCCTAACATCACGC	CCTCCAATCTCCACCTCCCT
PxylIR75q2.2	TGTGGATAGAGGTGACGGTGAA	CCGAGTACGAGGTGTAGAGGAA
PxylIR76b	TGCCTATTACGATAATTCGGGA	AGCAGGTGAGAGAAGGACACCT
PxylIR87a	ACGGAAATTCTGATCAAATAGCTG	GTGAGTCTCATGACGGGAGGC
PxylIR93a	CTGTTGTGGTCTCCCTCTGTGTG	CGTTGATCTCGTGTTTCATCTTG
Reference genes		
PxylRPS3	GGTGTCTCCGCTTCATCAT	GTCACCAGGATGTGGTCTGG
