

Supplementary Materials: A Female-Biased Odorant Receptor from *Apolygus lucorum* (Meyer-Dür) Tuned to Some Plant Odors

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Table S1. All the 65 compounds tested in this study.

Serial Number	Name	CAS
1	2-Phenylethanol	60-12-8
2	(Z)-3-Hexenol	928-96-1
3	β -Citronellol	106-22-9
4	Geraniol	106-24-1
5	(Z)-2-Hexenol	928-94-9
6	Benzaldehyde	100-52-7
7	(1S)-(-)-Verbenone	1196-01-6
8	1-Hexanol	111-27-3
9	(S)-(Z)-Verbenol	18881-04-4
10	(Z)-3-Hexenyl acetate	3681-71-8
11	3,7-Dimethyl-3-octanol	78-69-3
12	(-)-Borneol	464-45-9
13	(+)-Borneol	464-43-7
14	(1R)-(-)-Myrtenol	19894-97-4
15	(-)-(E)-Pinocarveol	547-61-5
16	(-)-Linalool	126-91-0
17	Linalool	78-70-6
18	Methyl benzoate	93-58-3
19	Myrcene	123-35-3
20	3-Vinylbenzaldehyde	19955-99-8
21	α -Pinene	80-56-8
22	(-)- β -Pinene	18172-67-3
23	Camphene	79-92-5
24	α -Humulene	6753-98-6
25	(E)-2-Hexenyl acetate	2497-18-9
26	α -Terpinene	99-86-5
27	(-)-(E)-Caryophyllene	87-44-5
28	(-)-Caryophyllene oxide	1139-30-6
29	Heptanal	111-71-7
30	4-Ethylbenzaldehyde	4748-78-1
31	(R)-(+)-Limonene	5989-27-5
32	(E)-2-Hexenal	6728-26-3
33	1-Heptanol	111-70-6
34	(1R)-(-)-Myrtenal	18486-69-6
35	(E)-3-Hexenol	928-97-2
36	(S)-(-)-Limonene	5989-54-8
37	1,4-Diethylbenzene	105-05-5
38	4'-Ethylacetophenone	937-30-4
39	Cinnamaldehyde	104-55-2
40	(\pm)-Citronellal	106-23-0
41	2-Undecanone	112-12-9
42	Benzyl alcohol	100-51-6

Table S1. Cont.

Serial Number	Name	CAS
44	Hexyl acetate	142-92-7
45	Octyl butyrate	110-39-4
46	Benzyl acetate	140-11-4
47	Tetradecane	629-59-4
48	Nonyl acetate	143-13-5
49	Hexyl acetate	142-92-7
50	Tridecane	629-50-5
51	Methyl salicylate	68917-75-9
52	(±)-Camphor	76-22-2
53	Ocimene	13877-91-3
54	Nerolidol	40716-66-3
55	2,6-Di-tert-butylphenol	128-39-2
56	1-Aminoanthracene	610-49-1
57	2-Pentadecanone	2345-28-0
58	Acetophenone	98-86-2
59	Cumene	98-82-8
60	Cedrol	77-53-2
61	Octyl acetate	112-14-1
62	Ethyl butyrate	105-54-4
63	Ethyl Hexanoate	123-66-0
64	β-Ionone	79-77-6
65	Phenyl benzoate	93-99-2

Table S2. Primers for full length cloning, vector construction and qRT-PCR.

Primer Name	Sequence (5'-3')
full length cloned	
AlucOR46-F	ATGGGCTACAGAGTTTATCCTCAG
AlucOR46-R	CTATGATACTTCTGCTTCATCTTGAAC
AlucOrco-F	ATGCAGAAAGTGAAGATGCACG
AlucOrco-R	TTATTTGAGCTGCACCAACACC
vector construction	
AlucOR46-F	tcagggccgcccaccATGGGCTACAGAGTTTATCCTCAG
AlucOR46-R	tcagcgccgcCTATGATACTTCTGCTTCATCTTGAAC
AlucOrco-F	tcagggccgcccaccATGCAGAAAGTGAAGATGCACG
AlucOrco-R	tcagcgccgcTTATTTGAGCTGCACCAACACC
qRT-PCR	
AlucOR46-F	GCTACCTCTTCACATCCATCTAC
AlucOR46-R	CAGCAACGGTGTGCTTATTG
AlucActin-F	CCTTCCTGGGTATGGAATCTTG
AlucActin-R	TGTTGGCGTACAGGTCTTTC