

Table S1. Primers for real-time quantitative-PCR of candidate *ORs*, *GRs*, and *IRs* in *S. frugiperda*.

ID	Forward primer (5' to 3')	Reverse primer (5' to 3')
<i>ORs</i>		
<i>SfruORco</i>	ATGTTGTCAGATTGGTAGCA	TCTTCAATGAGCCTGTTCC
<i>SfruOR53</i>	CGGTAAGAAATGCGACGATA	CAGAGCGAATGGAGGAAG
<i>SfruOR30</i>	CCTGAACTTGGTGTCTG	TTATTGGCAGCGTTGGAA
<i>SfruOR60</i>	CCACGCATAACCTCAGAC	CCTCATCGCAGCATTCTT
<i>SfruOR32</i>	TCAGCATCACACTCCAGAA	CGCTCATAGAAGATAGGAAGAA
<i>SfruOR35</i>	TGAGAAGCAGAGTGAAGTAG	AGCCAGCGATTATCAGATG
<i>SfruOR16</i>	TTCCTATTGTTTCGCATCCAT	CGGCTGTCTACTGTTACTG
<i>SfruOR45</i>	TGCTGATCTTGAAGAATCTG	ATGGCGATGGAAGTGAAT
<i>SfruOR50</i>	GCCATCTGCTTCATAATCTG	CCTCATACTGTTCTTCCTTCT
<i>SfruOR39</i>	GCACTTGTCTACGCTCTT	TTGTTCTTCGTGTTACCTCT
<i>SfruOR13</i>	ATTCCAGAAGCAAGAGACAT	CGGCAGATGATGGTAGTG
<i>SfruOR3</i>	TCTAGCAGCCTACGAGTC	TTGAGAACAGCGAAGATGG
<i>GRs</i>		
<i>SfruGR30</i>	CTTCTTGACGGTGCTGTT	CCATCTTCCTGTGCTTCC
<i>SfruGR1</i>	GGTAATCTTCTTCACGACTAC	TCCGAGGTTACATTACAG
<i>SfruGR12</i>	CGACGGACCTCATTATCAT	AACCAACCAAGCACTATCA
<i>SfruGR2</i>	GTATCATTATCCGCTCATATCC	ATCCACGATCAGTTCTACAG
<i>IRs</i>		
<i>SfruIR25a</i>	CGGCGTTCCAAGAGATAA	GGTCAGTCAAGGTTAGGTT
<i>SfruIR60a</i>	GTTATCGCCGTACCTCAA	TCCATTACACAGCCATTCA
<i>SfruIR75d</i>	GGACACCACCTACAAGAC	TGATTATGTCGTAGCCAGAG
<i>SfruIR64a</i>	GAATGGCGTAAGCAATATGT	GAGGAAGGAATAGCGTTAGT
<i>SfruIR40a</i>	CATTTCGTAAGGCTCACAGA	GCATCACTATTGTCAGAGGA
<i>SfruIR100</i>	GAGCGGATAGCAAGGTTC	ACGACCACAACATCATTCA
<i>SfruIR41a</i>	ACCGTATGTGCTGTTAGAC	TCTTCTACAACGTTCCAAT
<i>SfruIR75p</i>	TCATCATAGGAGCAGTTCTG	AGTGGTGAGTTGAGGAGAT
<i>SfruIR76b</i>	ATTGGCGGAGAAGGACAT	AGTTCTTCGTAGGTAGTATCAC
<i>SfruIR75q.1</i>	ACATAACCAGACACCAGTAG	TGGATCTTGAATGGAATGA
<i>SfruActin</i>	TACTCCTAAGCCTGTTGATG	TTATGTCATGGTGCCGAAT