

Table S1. Nucleotide sequences (5-3') of the primers that were used in this study.**(A)**

Target gene	Forward primer name	Forward primer sequence (5'-3')	Reverse primer name	Reverse primer sequence (5'-3')	Accession number
<i>Tcas</i> GR1	F1	ATGCAACACGAAGTCGTC	R1	TTAACCAAACTTACCGAAA	AM292322
<i>Tcas</i> GR2	F2	ATGGAAAAGTCGACGAAA	R2	TTAAGCGCAGGTTAAACTG	AM292323
<i>Tcas</i> GR3	F3	ATGTACCACCAAGACCAAGC	R3	TTAGTTGGGTGTTTGCGTAGTG	AM292359
<i>Tcas</i> GR4	F4	ATGGTTCGGCCAGAGCTTGAC	R4	TCATATCGAAAAGTTTTGTG	AM292325
<i>Tcas</i> GR5	F5	ATGACAATACAGTTGTTG	R5	TTAACTGGTCAAGTTTTCAA	AM292326
<i>Tcas</i> GR6	F6	ATGGAAATAAGCGACTTGG	R6	TTATCCCCGCATATTGAGTA	AM292327
<i>Tcas</i> GR7	F7	ATGAGAGTGCAGCCTTCAAAC	R7	TCACAGGTAAACGGGGCACG	AM292328
<i>Tcas</i> GR104	F8	ATGTGTTATTTCAATTAATC	R8	TTATTTAGCTGAGCTTTGAT	AM292329
<i>Tcas</i> GR9	F9	ATGGAAAAGTCGACGAAAAT	R9	TTAGCAAATAGAGTTTCTTG	AM292330
<i>Tcas</i> GR10	F10	ATGAGAAATGACCATGGGTCC	R10	TTAGGACATGGTTGTATTCCC	AM292331
<i>Tcas</i> GR11	F11	ATGATCAAATTTTCCAAAG	R11	CTACAAAATAATAATTAC	AM292332
<i>Tcas</i> GR12	F12	ATGTCCAACCTGAAGAAGCTC	R12	CTAAACTTGCACTATTTTATCG	AM292333
<i>Tcas</i> GR13	F13	ATGCGGTTTTTGGGGGAAAGC	R13	CTAAACTTGCACTATTTTATC	AM292334
<i>Tcas</i> GR14	F14	ATGCCCTCCTTCCCAAGAC	R14	TTAAAAATTGAACTGGATCA	AM292335
<i>Tcas</i> GR15	F15	ATGGACATTAAATCAATCAA	R15	TTATGTCAAGTAGAAAGCGTG	AM292336
<i>Tcas</i> GR16	F16	ATGCCTCAAGTCAAACCTCCAC	R16	CTACTCCACAAAATTGTAC	AM292337
<i>Tcas</i> GR17	F17	ATGAACACGTTTAAAATTTTCC	R17	TTAGGCGGTGGTACCATTGCC	AM292338
<i>Tcas</i> GR150	F18	ATGAACACGTTTAAAATTTTCC	R18	TTAGGCGGTGGTACCATTGCC	AM292339
<i>Tcas</i> GR19	F19	ATGACAAGTAAAGCACGCAC	R19	TTACCAAACAACGAAGAGCC	AM292340
<i>Tcas</i> GR20	F20	ATGACACCTCACGCTTTAATT	R20	TTAGTAAACATTCCCATGAATAC	AM292341
<i>Tcas</i> GR21	F21	ATGTTGCCTAAACAATTTT	R21	TTAATAACTTTCTGTCGCG	AM292342
<i>Tcas</i> GR22	F22	ATGTTCCGCGACTTGGGCAG	R22	TCAATAAAGAGTTGAGTTTGTG	AM292343

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<i>Tcas</i> GR79	F23	ATGGAATACAGATCGCAAAC	R23	TTAATTAATTTGAAATTGTAAC	AM292344
<i>Tcas</i> GR123	F24	ATGTCGGATTTCCAAAACTG	R24	TTATTGTCCGGCAAGTGATGTG	AM292345
<i>Tcas</i> GR25	F25	ATGTCACAAGTTATGCTAATC	R25	CTAATTTTTTGGAAATTTTTTGA	AM292346
<i>Tcas</i> GR26	F26	ATGGAAATAAGCGACTTGGCC	R26	TTATCCCCGCATATTGAG	AM292347
<i>Tcas</i> GR27	F27	ATGTCGCACTCGAACCCC	R27	TTAATTGTTTCCTAATATCGTGC	AM292348
<i>Tcas</i> GR28	F28	ATGCGTTTAATAAGAAAGATG	R28	TTAACGTCTTACTTCAAC	AM292349
<i>Tcas</i> GR29	F29	ATGAGAGTGCAGCCTTCA	R29	TCACAGGTAAACGGGGCACG	AM292350
<i>Tcas</i> GR30	F30	ATGAGAGTGCAGCCTTCAAAC	R30	TCACAGGTAAACGGGGCACG	AM292351
<i>Tcas</i> GR31	F31	ATGGGCTCGGTTGCAATTAATC	R31	TTAAAACCTGATCAATTAAGAATG	AM292352
<i>Tcas</i> GR32	F32	ATGAGCTTCAAGTTGTTGAG	R32	TTATGGTTGCGAATAGTTCG	AM292353
<i>Tcas</i> GR33	F33	ATGGAAATAAGCGACTTGGCC	R33	TTATCCCCGCATATTGAGTAAAC	AM292368
<i>Tcas</i> GR34	F34	ATGAGTTCCCAACTATTG	R34	TTATCGTTCTTTATCGAACTGG	AM292355
<i>Tcas</i> GR35	F35	ATGCGTTTGAAATGGTATTAC	R35	TCAATTTTCTTTAAATTGG	AM292356
<i>Tcas</i> GR105	F36	ATGTATTTTTCACGACGAG	R36	TCAAAAACCGAATTCAATAATTAC	AM292357
<i>Tcas</i> GR37	F37	ATGCTGAAGTGGGTCCTTA	R37	TTATGGTTGCGAATAGTTCG	AM292358
<i>Tcas</i> GR38	F38	ATGAATAATAAACTTAACATG	R38	TTAAATTCGCTCAACTTGG	AM292324
<i>Tcas</i> GR39	F39	ATGAGAAATGACCATGGGTC	R39	ACGTTAGCAATTGCTCTTCTTG	AM292360
<i>Tcas</i> GR40	F40	ATGGTGTTTGCCGAGCTCTG	R40	TTATACCACAGCGAAAATAGC	AM292361
<i>Tcas</i> GR41	F41	ATGATCGAAGTTGGTAAAAC	R41	CTAGTTGTATTTTCCCTGCTTTTG	AM292362
<i>Tcas</i> GR71	F42	ATGACAGACCACAACCTAC	R42	TCAGTGTTTATTATTAACCTG	AM292363
<i>Tcas</i> GR43	F43	ATGGATTTCCAGTTGTTAC	R43	TTAGGAATTACGAAACTGCAC	AM292364
<i>Tcas</i> GR44	F44	ATGACTAGAGCTATGGTTCG	R44	TCATATCGAAAAGTTTTGTGGC	AM292365
<i>Tcas</i> GR45	F45	ATGTGTTATTTCAATTAATC	R45	TTATTTAGCTGAGCTTTGAT	AM292366
<i>Tcas</i> GR46	F46	ATGGAAGAAAAACTGGTG	R46	TTACTGTTTAAGTGATGCCG	AM292367
<i>Tcas</i> GR47	F47	ATGGATTTAGAAGTGTTGG	R47	TTAATCCTGAAATTGCGCAACC	AM292354
<i>Tcas</i> GR48	F48	ATGCACACACTTCAACATTTTAC	R48	TTAAATACTATACTCGTATG	AM292369
<i>Tcas</i> GR49	F49	ATGTGCCAAATAAAAAACAAG	R49	TCATCTGAAATTTGCCTC	AM292370
<i>Tcas</i> GR50	F50	ATGTCGCTTTATTCGTCCATC	R50	TCACTGTTCTGTTTCTTTG	AM292371
<i>Tcas</i> GR51	F51	ATGAACATGATTCTCAAACATC	R51	TTATTCCTTTTTGGTTTTGATT	AM292372

<i>TcasGR54</i>	F52	ATGCAGGATTCGTTCCAATATATC	R52	TTACAGCGACATATTA AATTG	AM292375	
<i>TcasGR53</i>	F53	ATGCTGAAGTGGGTCCTTAAAG	R53	GACGATCAAAAACGTGAC	AM292383	
<i>TcasGR52</i>	F52	ATGAGCTTCAAGTTGTTGAG	R52	TTACAAGTTGATGTTTGTG	AM292373	
<i>TcasGR125</i>	F55	ATGATCAAATTTTCCAAAG	R55	TTAACAAGTGCTATTGTTTG	AM292376	
<i>TcasGR56</i>	F56	ATGTTGCCTAAACAATTTTTAAA	R56	TTATTTGTAACACTTTTTACTC	AM292377	
<i>TcasGR57</i>	F57	ATGAAAGAAGTGCCCGGTTGGC	R57	TTATTCGATAAACTGTATCG	AM292378	
<i>TcasGR98</i>	F58	ATGTCATACAGACTGTCTCGC	R58	TTATTTATTTAAACCTTG	AM292379	
<i>TcasGR59</i>	F59	ATGTGGAGTGAAAATATTACAC	R59	CTAATTTTTTGGAATTTTTTG	AM292380	
<i>TcasGR60</i>	F60	ATGATACTAGTACTACTAGTG	R60	TCAATAAAGCCAAAACAATTTG	AM292381	
<i>TcasGR61</i>	F61	ATGACCAAAGCACAGTCTATG	R61	TTATGGCCACAAGTGGGTTTG	AM292382	
<i>TcasGR62</i>	F62	ATGATGGATAGAATAAATCAC	R62	TTATTGTCCGGCAAGTGATG	AM292374	
<i>TcasOr1</i>	F1	ATGAATAATTCCAGGCCTGC	R1	TCATTCTCTCACCTCATG	AM689931	<i>T. castaneum</i> Ors
<i>TcasOr2</i>	F2	ATGTTTAAAACCGTAACGAGG	R2	TCACTAAATTCCTGAAATTAC	AM689904	
<i>TcasOr3</i>	F3	ATGTCCAAAAGTGAAAAAATCC	R3	TCAGTGATTTATGCCGTG	AM689905	
<i>TcasOr4</i>	F4	ATGGACGAAGAGTTTTTAATCG	R4	TCATTTGACAATTTCTTTGTG	AM689906	
<i>TcasOr5</i>	F5	ATGGTGTGGTCACCCAAAGATG	R5	AAGTATCACTAGTTGCAAAC	AM689907	
<i>TcasOr6</i>	F6	ATGAGTCCGCACGATTCGGG	R6	TTACTCTAACACAAATCTGTG	AM689908	
<i>TcasOr7</i>	F7	ATGTACCGACTTGTCGCTTCC	R7	TCACTAACTCACAGTGTAAGC	AM689909	
<i>TcasOr63</i>	F8	ATGGGTTTTATGATACAGG	R8	TTAGGAATCTTTATACAGGCG	AM689910	
<i>TcasOr9</i>	F9	ATGGAAAAATCGTCAA AATTATC	R9	TCAGTTAACTCCTTCAAGAGC	AM689911	
<i>TcasOr10</i>	F10	ATGGCCACTTTCTACTTTAC	R10	TCATACCAGCAAAAAGTTTCG	AM689912	
<i>TcasOr11</i>	F11	ATGGGCAAAGTCAAGTTTACG	R11	TTATTTCTGATTCATAGCGTTG	AM689913	
<i>TcasOr12</i>	F12	ATGGCACATAATCTGGACG	R12	TTATTCCAAATTAAGCAAATAG	AM689914	
<i>TcasOr13</i>	F13	ATGAGTGCAATGTCGACGG	R13	TTAATTA AACTGAAACAAAATC	AM689915	
<i>TcasOr56</i>	F14	ATGACCGCAACGAAAAGCC	R14	TTAAATATTCATTTGCCTC	AM689916	
<i>TcasOr15</i>	F15	ATGAGCAAAAACCTCAAAG	R15	AGTATTCATTTGTTTCAAAAAC	AM689917	
<i>TcasOr16</i>	F16	ATGATGAAATTC AAGGTC	R16	TCATTTGAGTTGCACCAACACC	AM689918	
<i>TcasOr17</i>	F17	ATGTCCA ACTTTAGCTGG	R17	TTACCTCAA AATTTCTCTATGG	AM689919	

<i>TcasOr18</i>	F18	ATGGCAAACACTGGAGTACC	R18	TTAATCTTTCCCAAATCAGTC	AM689920
<i>TcasOr19</i>	F19	ATGGTTCTACTTCCGACTG	R19	TCATACGGTAACAAACAGAGC	AM689921
<i>TcasOr20</i>	F20	ATGATGGACGAGACTTACC	R20	ACGGTTTTAATTTCAAAGTAG	AM689922
<i>TcasOr21</i>	F21	ATGGAGAAATATGATTGG	R21	TTACTTCAAATTTCTTGGTGG	AM689923
<i>TcasOr22</i>	F22	ATGGCAAAGGACTCGTCCC	R22	CACTAAGTGGACTGGTGCAA	AM689924
<i>TcasOr23</i>	F23	ATGGCAAAGACACGTCCC	R23	ACTATGTGGATTTGTGCAAAG	AM689925
<i>TcasOr24</i>	F24	ATGACTGAAGAGAAACAG	R24	ATTGCAGGATTGTGAGAATGG	AM689926
<i>TcasOr25</i>	F25	ATGACCGAAGAGAAAGAG	R25	TTACTACCCCATCATAAAGCC	AM689927
<i>TcasOr26</i>	F26	ATGATGGAATCAACCGTC	R26	ACTAAGAAGTACGTTAAG	AM689928

(B)

<i>TcasGR1</i>	GrF1	TGGTAACACGTTTCAATGAG	GrR1	CACAAATAATGCCAAGGAAAG	AM292322	<i>T. castaneum</i> Grs
<i>TcasGR2</i>	GrF2	TAATCAAATCTTTAACGAG	GrR2	GAGCTTTCCACAACGAG	AM292323	
<i>TcasGR3</i>	GrF3	GTCTCAAGTCGCCGATTATC	GrR3	GCTGTGACAGTAACCCGTAG	AM292359	
<i>TcasGR4</i>	GrF4	CAATCTTTGGAGTGTCTTTC	GrR4	GTGTAAACAGTGGCCACAGTTGG	AM292325	
<i>TcasGR5</i>	GrF5	GTGTTGATCTTCAATAGTC	GrR5	CCATAAAATAAAGATCACACTGTAGG	AM292326	
<i>TcasGR6</i>	GrF6	GAGTGCTGTGGTTATCAC	GrR6	AACTGAAACGAATACCGTGATC	AM292327	
<i>TcasGR7</i>	GrF7	CGTACATAGTCCTCATGTC	GrR7	CACAAGCACACCGTACGCACG	AM292328	
<i>TcasGR104</i>	GrF8	TTTAACGACGTCTTCGGG	GrR8	ACTAGGCACAAATTCGCGGC	AM292329	
<i>TcasGR9</i>	GrF9	CATCGTTTCTCAACAAC TTC	GrR9	CGTGACCACAGCACTCG	AM292330	
<i>TcasGR10</i>	GrF10	ATCCTGGGCGCATATCGCG	GrR10	TGAAGGAGATCCCCTGGTCC	AM292331	
<i>TcasGR11</i>	GrF11	GTACATCTTGTGCCGTC	GrR11	CCAAATCCATATGGAAG	AM292332	
<i>TcasGR12</i>	GrF12	AATGATATTTTCGGCTGG	GrR12	CTGATCGTACTCTCCCGCATTGC	AM292333	
<i>TcasGR13</i>	GrF13	AATGATATTTTCGGCTGG	GrR13	CTGATCGTACTCTCCCGCATTGC	AM292334	
<i>TcasGR14</i>	GrF14	CACCACAATCACGGCCATGG	GrR14	CACGAGCAGCCAATAGAAGCAG	AM292335	
<i>TcasGR15</i>	GrF15	GTTTTCTTACCGTTCCAG	GrR15	ACGCCACGTTCACAATTTGATC	AM292336	
<i>TcasGR16</i>	GrF16	GTGACTCCTATATTGTCATG	GrR16	CGCTTCTTGACACAAGTCGGTCAC	AM292337	
<i>TcasGR17</i>	GrF17	TGGAGACGCATATGCGGTAC	GrR17	GTGACTTTTGCTCACGACTC	AM292338	

<i>Tcas</i> GR150	GrF18	TGGAGACGCATATGCGGTAC	GrR18	GTGACTTTTGCCTCACGACTC	AM292339
<i>Tcas</i> GR19	GrF19	CATTTATTATTGTTAGTGTGC	GrR19	GGCAAAAATAATAAATGCAAAG	AM292340
<i>Tcas</i> GR20	GrF20	GAACGCTTGAACGAGTTTATG	GrR20	GATACCCAGCGTTACACACCTC	AM292341
<i>Tcas</i> GR21	GrF21	GTGGACCAAGTTGCAGCCC	GrR21	TAATTGCAACTAAAAACAGGGCTG	AM292342
<i>Tcas</i> GR22	GrF22	TGATTGGTGATTTGCACACT	GrR22	CGTTGCAAAGATCACTCGC	AM292343
<i>Tcas</i> GR79	GrF23	GAGAATTTGACCAAATTGTGG	GrR23	ACCTACAAGTCCAAGAAATGTAT	AM292344
<i>Tcas</i> GR123	GrF24	AATGTCCAAGCGGGCG	GrR24	TGTAAGTGGTGACACC	AM292345
<i>Tcas</i> GR25	GrF25	TGGCCGAAGCCTTTAGCAGC	GrR25	GAGGTAAGCGCCAGATTCTCC	AM292346
<i>Tcas</i> GR26	GrF26	GAGTGCTGTGGTTATCAC	GrR26	AACTGAAACGAATACCGTGATC	AM292347
<i>Tcas</i> GR27	GrF27	GTACCAGGGAATTCTAGTCG	GrR27	AGAGGCGTTCGTACCAGTGC	AM292348
<i>Tcas</i> GR28	GrF28	GTTTTTCCAGTGGAACACC	GrR28	GAGAATAATCAATAAGCGTG	AM292349
<i>Tcas</i> GR29	GrF29	CGTACATAGTCCTCATGTC	GrR29	GATCAAGAAACCAAACGACC	AM292350
<i>Tcas</i> GR30	GrF30	CGTACATAGTCCTCATGTC	GrR30	GATCAAGAAACCAAACGACC	AM292351
<i>Tcas</i> GR31	GrF31	CGACAACAACATGTCCTAC	GrR31	CAAACCGAAATTAATCGC	AM292352
<i>Tcas</i> GR32	GrF32	CGATATTTTCGGGTGGCCC	GrR32	CCAGGAAATTACAGTAACGTTGG	AM292353
<i>Tcas</i> GR33	GrF33	GAGTGCTGTGGTTATCAC	GrR33	AACTGAAACGAATACCGTGATC	AM292368
<i>Tcas</i> GR34	GrF34	CGCTAGTTTCGCTAATTTTCC	GrR34	GTGGAAAAAACCGCCGGCTGTAAAC	AM292355
<i>Tcas</i> GR35	GrF35	TGATATTTTCGGCTGG	GrR35	CCACCCAAAGAATAAAAAGCCACAC	AM292356
<i>Tcas</i> GR105	GrF36	ACGACATCTTTGGCTGGA	GrR36	GTTGTAATTGTGGCCAG	AM292357
<i>Tcas</i> GR37	GrF37	ACGACATCTTTGGCTGGAC	GrR37	GTCCCAAATGTGTTGAAAAGAGC	AM292358
<i>Tcas</i> GR38	GrF38	GTGTGAAACTCTTCAATGAGG	GrR38	TAAAGGGAACACTGGCCAGGGCC	AM292324
<i>Tcas</i> GR39	GrF39	ATCCTGGGCGCATATCGCG	GrR39	TGAAGGAGATCCCCTGGTCC	AM292360
<i>Tcas</i> GR40	GrF40	CGGGGTACAATCTCACCACC	GrR40	CCAATTATCAAGCGCCATTTCC	AM292361
<i>Tcas</i> GR41	GrF41	CGTTGGTGTTATTTACACAAC	GrR41	CTACCAGTTTAGTTACCATG	AM292362
<i>Tcas</i> GR71	GrF42	TGAGTTTTTTGGGTGGCCC	GrR42	CATAAATGCAACGCCAACG	AM292363
<i>Tcas</i> GR43	GrF43	CGCAACTTTGGATTTCCCTCG	GrR43	CCACACAGTCACACAAGATAATC	AM292364
<i>Tcas</i> GR44	GrF44	CAATCTTTGGAGTGTCTTTC	GrR44	GTGTAAACAGTGGCCACAGTTGG	AM292365
<i>Tcas</i> GR45	GrF45	TTTAACGACGTCTTCGGG	GrR45	ACTAGGCACAAATTCGCGGC	AM292366
<i>Tcas</i> GR46	GrF46	TAATCAAATCTTTTAACGAG	GrR46	AGGTGGTAACACCTCC	AM292367

<i>Tcas</i> GR47	GrF47	GTGTGGACGGGTGATGG	GrR47	CAGCAGCTGTTATCTTAACTT	AM292354
<i>Tcas</i> GR48	GrF48	GATTATGCTGGCTTTGAGC	GrR48	CAGAATTGAGTACCAAATAGCC	AM292369
<i>Tcas</i> GR49	GrF49	CACCACAATCACGGCCATGG	GrR49	CACGAGCAGCCAATAGAAGCAG	AM292370
<i>Tcas</i> GR50	GrF50	CGTCTTGTCCACATTTTCC	GrR50	GTCGCAAAGATACGCAAGTGCC	AM292371
<i>Tcas</i> GR51	GrF51	CGAGAATTTGTCCGAAATGG	GrR51	CAATGGCATCAAACTCTTCAC	AM292372
<i>Tcas</i> GR52	GrF52	CAAAATTTTCGGCTGGTCC	GrR52	AAACTGAAAGGTGTATTATAGCG	AM292375
<i>Tcas</i> GR53	GrF53	CGATATTTTCGGGTGGCCC	GrR53	CCAGGAAATTACAGTAACGTTGG	AM292383
<i>Tcas</i> GR54	GrF54	AATGATATTTTCGGGTGGC	GrR62	CCAGAAAATCACCACAATAATGTAC	AM292373
<i>Tcas</i> GR125	GrF55	CGTATCCATTGGTGTTTCGC	GrR55	TGCTGGCACAAGCATAACACC	AM292376
<i>Tcas</i> GR56	GrF56	GTGGACCAAGTTGCAGCCC	GrR56	TAATTGCAACTAAAAACAGGGCTG	AM292377
<i>Tcas</i> GR57	GrF57	ATGGCTTGGCAATGCTTGAG	GrR57	GACCAAATTTGTCCCAAACGAG	AM292378
<i>Tcas</i> GR98	GrF58	TGACATTTTTGGTTGGCCG	GrR58	CGTCTGGACAAGACTCG	AM292379
<i>Tcas</i> GR59	GrF59	TGGCCGAAGCCTTTAGCAGC	GrR59	GAGGTAAGCGCCAGATTCTCC	AM292380
<i>Tcas</i> GR60	GrF60	GCGCTTGATGCACCGCC	GrR60	GTACTAGTACTACAACCGC	AM292381
<i>Tcas</i> GR61	GrF61	TTCTGTAATGTTTTGATGGAG	GrR61	CAAACCTGCGCCTAAGTATAA	AM292382
<i>Tcas</i> GR62	GrF62	GGTGAAACTGTTCAATGAG	GrR53	CGAACGTAACATTAGACAAAATA	AM292374
<i>Tcas</i> Or1	OrF1	CGAAAGTAAGTCTCTCGGTAC	OrR1	CCAAATTGTTAATCCATACTCAG	AM689931
<i>Tcas</i> Or2	OrF2	TAATCAAATCTTTTAACGAG	OrR2	TACCTCTTCAATCGTCG	AM689904
<i>Tcas</i> Or3	OrF3	CTCTTGAAAGAGGAGACTTTAC	OrR3	GGAACCACCCAACGCACATGCCG	AM689905
<i>Tcas</i> Or4	OrF4	CTCGTGCAAGTTCATCGC	OrR4	CGTGTTGTAGGGCAACCAGCC	AM689906
<i>Tcas</i> Or5	OrF5	TGGGTTTGTCCAGTAATGC	OrR5	AAAGCCATCGGAATCCAC	AM689907
<i>Tcas</i> Or6	OrF6	TCTGTGCTCCTTGTTTGTTT	OrR6	TCACAGCGAAATAGACAGCG	AM689908
<i>Tcas</i> Or7	OrF7	AATCTTGAGGAAAGTGTTAG	OrR7	AAAGCCGAAGCTGTCCCG	AM689909
<i>Tcas</i> Or63	OrF8	CCTCCAGTTGTTCTGGGAGCG	OrR8	CGTAGTAGCAGTAGGTGGCAACC	AM689910
<i>Tcas</i> Or9	OrF9	GCCGACATTGTTGGGACGC	OrR9	GTACGAGGAAGCGGACATTG	AM689911
<i>Tcas</i> Or10	OrF10	CGGCTAAAATCTCAATTGGG	OrR10	GTCAATTTGACCGGACTTTGGGCC	AM689912
<i>Tcas</i> Or11	OrF11	GGTTCTTTGTAAATCACCTG	OrR11	TCGCAGCTCTTTGGCCCCG	AM689913
<i>Tcas</i> Or12	OrF12	ACTAATCTTTTCACAACCTG	OrR12	ACAAATAAATCTCCATGAGGAC	AM689914

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<i>TcasOr13</i>	OrF13	GAGCAAGTGCGCGATTTAATC	OrR13	CCTGTGGTAAATATAATGGCG	AM689915
<i>TcasOr56</i>	OrF14	GCAGATGCCGTCATTTGCGG	OrR14	CTCGATTCGTTCAATCTCTCG	AM689916
<i>TcasOr15</i>	OrF15	GGGAATCCCGATAGGGG	OrR15	CGAGCCTGCTCCTCTCAC	AM689917
<i>TcasOr16</i>	OrF16	ACGAGGATCTTAAGGGGGTG	OrR16	CCACCCAGTATTTGATCGCCG	AM689918
<i>TcasOr17</i>	OrF17	GGACAAATGGACCAAAGAC	OrR17	CTTGGTGGTGT TTTATGCACG	AM689919
<i>TcasOr18</i>	OrF18	CATCATAATTTCAACCGAC	OrR18	TTCCCCAAATCAGTCAC	AM689920
<i>TcasOr19</i>	OrF19	TCCACCTCGCGACCACCG	OrR19	ACAAACAGAGCAAAGCTC	AM689921
<i>TcasOr20</i>	OrF20	CGAACCGATTTGGCGTTC	OrR20	GTGAAATATGAATAAGCCG	AM689922
<i>TcasOr21</i>	OrF21	TTGGGGGAGCGACGCTG	OrR21	GCACGTTATTAGGTCGCG	AM689923
<i>TcasOr22</i>	OrF22	AATGGATGCTATGTGGTC	OrR22	GGGCAAACGACATGATACC	AM689924
<i>TcasOr23</i>	OrF23	CGCTACCAGCAACACATC	OrR23	GACATGATCCCGATCGGGG	AM689925
<i>TcasOr24</i>	OrF24	CACTCATCTCACAACCAC	OrR24	CCGCAACAGACAAACTCG	AM689926
<i>TcasOr25</i>	OrF25	CGTCTCTCCATTATCACC	OrR25	TACCGAAAAGAACGCCTG	AM689927
<i>TcasOr26</i>	OrF26	AGGAGGAAGATGTTGGCC	OrR26	GGGACACGTA ACTAAACGGC	AM689928

(A) Nucleotide sequences of the primers that had been used to amplify the *T. castaneum* chemoreceptor (*TcasGR* and *TcasOr*) DNAs using the genomic DNA as a template. (B) Nucleotide sequences of the primers that were used in Q-real time RT-PCR and whole-mount *in situ* RT-PCR analysis. The name of the gene target is given at the left, followed by the primer name and the primer sequence (5'-3').