

Additional file 3. Sequences of primers used to amplify alternate splice variants of *T. castaneum* cys-loop LGIC subunits. Forward primers are on the top of each pair and reverse primers are on the bottom. All primers are shown 5' to 3'.

| Subunit Variant | 1 st PCR reaction | 2 nd PCR reaction |
|-------------------------|---|---|
| Tcas α 6 3a8a | tggcgctgctggccac + gcagttgaaataggtccc | gaaaagaatcagattctcacg + gaactgcatcggacgtgg |
| Tcas α 6 3a8b | tggcgctgctggccac + gcagttgaaataggtccc | gaaaagaatcagattctcacg + aaggaatggcgctcagatac |
| Tcas α 6 3a8c | tggcgctgctggccac + gcagttgaaataggtccc | gaaaagaatcagattctcacg + gacgtctgggttatcacg |
| Tcas α 6 3b8a | tggcgctgctggccac + gcagttgaaataggtccc | ggacgagaagaatcaactc + gaactgcatcggacgtgg |
| Tcas α 6 3b8b | tggcgctgctggccac + gcagttgaaataggtccc | ggacgagaagaatcaactc + aaggaatggcgctcagatac |
| Tcas α 6 3b8c | tggcgctgctggccac + gcagttgaaataggtccc | ggacgagaagaatcaactc + gacgtctgggttatcacg |
| Tcas_RDL 3a6a | gtgctgctggccctcg + tcccaaatagacgtcgatc | ctcagtatcagctccgtc + ggtcagggttaattacggtc |
| Tcas_RDL 3a6b | gtgctgctggccctcg + tcccaaatagacgtcgatc | ctcagtatcagctccgtc + gtgaggctgatctccatg |
| Tcas_RDL 3b6a | gtgctgctggccctcg + tcccaaatagacgtcgatc | ctcgctgtccgaagtgaa + ggtcagggttaattacggtc |
| Tcas_RDL 3b6b | gtgctgctggccctcg + tcccaaatagacgtcgatc | ctcgctgtccgaagtgaa + gtgaggctgatctccatg |
| Tcas_RDL 3c6a | gtgctgctggccctcg + tcccaaatagacgtcgatc | tcgctgtccgaggtcca + ggtcagggttaattacggtc |
| Tcas_RDL 3c6b | gtgctgctggccctcg + tcccaaatagacgtcgatc | tcgctgtccgaggtcca + gtgaggctgatctccatg |