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| **Primer Name** | **Sequence** | **Product Size (bp)** |
| UASp-CTPsyn isoA-VenusForwardReverse | CACCATGGCGCCAAAAAAGTCCACCTTGGACTCCTCAAGATCTTCTTTGTAG | 1596 |
| UASp-Venus-CTPsyn isoAForwardReverse | CACCGCGCCAAAAAAGTCCACCATCTACTTGGACTCCTCAAGATCTTCTTTGT | 1596 |
| UASp-CTPsyn isoB-VenusForwardReverse | CACCATGGCGCCAAAAAAGTCCAC CTTATGGCCATTGGTAGGAT | 2423 |
| UASp-Venus-CTPsyn isoBForwardReverse | CACCGCGCCAAAAAAGTCCACCAT TTACTTATGGCCATTGGTAG | 2423 |
| UASp-CTPsyn isoC-VenusForwardReverse | CACCATGAAATACATCCTGGTAACCTTATGGCCATTGGTAGGAT | 2397 |
| UASp-Venus-CTPsyn isoCForwardReverse | CACCAAATACATCCTGGTAACTGGTGGCGTTACTTATGGCCATTGGTAG | 2397 |
| UASp-N term-VenusForwardReverse | CACCATGAAATACATCCTGGTAACCATGCTCATAAGGCGA | 166 |
| UASp-Venus-N termForwardReverse | CACCAAATACATCCTGGTAACTGGTGGCGTTACATGCTCATAAGGCGA | 169 |
| UASp-Trunc isoC-VenusForwardReverse | CACCATGGAGGTTTACGTTTTGGACG CTTATGGCCATTGGTAGGAT | 1879 |
| UASp-Venus-Trun isoCForwardReverse | CACCGAGGTTTACGTTTTGGACG TTACTTATGGCCATTGGTAG | 1886 |
| UASp-SD-VenusForwardReverse  | CACCATGAAATACATCCTGGTAACTTCACGGCGAACGGTCT | 895 |
| UASp-Venus-SDForwardReverse | CACCAAATACATCCTGGTAACTGGTGGCGTTATTCACGGCGAACGG | 898 |
| UASp-GAT-VenusForwardReverse | CACCATGATTGAATACCTAAATGA CTTATGGCCATTGGTAGGAT | 1169 |
| UASp-Venus-GATForwardReverse | CACCATTGAATACCTAAATGA CATGCTCATAAGGCGA | 1166 |

Abbreviations: N-term, an N-terminal segment (56-aa) of CTPsyn isoform C; Trun IsoC, truncated isoform C; SD, synthetase domain; GAT, type 1 glutamine amidotransferase domain.