**Supplementary File 2. Oligonucleotide primers sequences**

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| **Primer Name** | **Sequence (5’ to 3’)** |
| EcoRI\_FLAG\_actinin\_1 | CTTGAATTCCACCATGGACTATAAGGATGACGATGACAAAATGAACCAGATAGAGCCCGG |
| actinin\_894stop\_SalI | CTTGTCGACTCACAGATCGCTCTCCCCG |
| actinin\_890stop\_SalI | CTTGTCGACTCACCCGTAGAGTGCGGAAGAGAA |
| actinin\_748stop\_SalI | CTTGTCGACTCACTTCGCATCTCTCGTCAGGATCT |
| L854R\_F | GAGGAGCTGCGTCGGGAGCGGCCCCCGGATCAGGCCCAG |
| L854R\_R | CTGGGCCTGATCCGGGGGCCGCTCCCGACGCAGCTCCTC |
| pNH-Trx CaMKIIa 1to315\_F | TACTTCCAATCCATGGCTACCATCACCTGCACC |
| pNH-Trx CaMKIIa 1to315\_R | TATCCACCTTTACTGTCATCGGGAGAAGTTCCTGGTGGC |
| EcoRI\_actinin\_747 | TACTTGAATTCGCGAAGGGCATCACCCAG |
| actinin\_Term\_Not1 | TAAATCGCGGCCGCTCACAGATCGCTCTCCCC |
| EF34\_F | TACTTCCAATCCAATCCAATGCAACCGACACTGCCGAGCAGGTCATC |
| EF34\_R | TTATCCACTTCCAATGTTATTATCATCACAGATCGCTCTCCCCG |
| EcoRI\_6HisCaMKIIa | CATGAATTCCACCATGCACCACCATCACCACCATATGGCTACCATCACCTGCAC |
| CaMKIIa\_Term\_XhoI | CACTCGAGTCAATGCGGCAGGACG |
| BamHI\_GluN2B\_1260 | AGCGGCGGATCCCTGCAGGAACTGGACCAG |
| GluN2B\_Term\_EcoRI | CCGGGAGCTGCATGTGTCAGAGG |
| T286A\_F | GCCTGCATGCACAGACAGGAGGCCGTGGACTGCCTG |
| T286A\_R | GAACTTCTTCAGGCAGTCCACGGCCTCCTGTCTGTG |
| T305A\_F | GGAAACTGAAGGGAGCCATCCTCGCCACTATGCTGGCCACCAGGAAC |
| T305A\_R | GTTCCTGGTGGCCAGCATAGTGGCGAGGATGGCTCCCTTCAGTTTCC |
| T306A\_F | GGAAACTGAAGGGAGCCATCCTCACCGCTATGCTGGCCACCAGGAAC |
| T306A\_R | GTTCCTGGTGGCCAGCATAGCGGTGAGGATGGCTCCCTTCAGTTTCC |
| BamHI\_V5\_CaMKII\_F | AGCGGCGGATCCCACCATGGGTAAGCCAATCCCAAACCCCTTGCTGGGTCTCGATAGCACAATGGCTACCATCACCTGCACCCGATTCACAGAA |
| CaMKII\_Term\_SalI\_R | AGCAGGTCGACACGCGTCGTACGTCAATGCG |
| AgeI\_4gHA4g\_F | CCTCGACCGGTCTGGGGGAGGCGGAGGTTACCCATACGATGTTCCAGATTACGCTGGTGGAGGGGGTGGCAACTTCTGCCGCAGCTGTCCTTCC |
| EcoRI\_GluN2B\_R | CGGCAAGAATTCAGTGAAAGC |
| CaMKIIa\_AQ\_F | CGGAACAAAGCGCGCCAGCAGCATTCCTACGACACC |
| CaMKIIa\_AQ\_R | CTGCTGGCGCGCTTTGTTCCGATTCTTCTTCTGAGC |