**Table supplement 2. PCR primers for TKIT donors**

|  |  |
| --- | --- |
| **SEP-mGluA1** |   |
| A1\_fwd | GGCCTTCCTGGTGTTCCATTGCTAAGGTTGGACCAGGGCTTCT |
| A1\_rev | GTGGGAAGACCAAATCTATGGTTGGTGGTGTTCCATTGCTAAGC |
|   |   |
| **SEP-mGluA2** |   |
| A2\_fwd | GGCCTCTATTGTGTCAAAAGGCATACCTGGGAGATAAGGATTC |
| A2\_rev | GGAACAGCCACCAGCTAAACCTGGGTTGTGTCAAAAGGCATAGT |
|   |   |
| **SEP-mGluA3** |   |
| A3.up\_fwd  | tccgcgcacatttccccgactcgagaattcccccatactcgtcagttctttgcAGGGGGTGTAAGAGCCGG  |
| A3.up\_rev  | agccaccgccaccGGGGAATCCTCCGTGAGAATG  |
| A3.SEP\_fwd  | cggaggattccccGGTGGCGGTGGCTCTAGAAG  |
| A3.SEP\_rev  | tgttggggaatccGGATCCGCCACCGCCTGA  |
| A3.dn\_fwd  | cggtggcggatccGGATTCCCCAACACCATC  |
| A3.dn\_rev  | ctcgctgtatcgctcgagggatccgaattcgcgagcgagagcaagttgaggggAGCTCAGGTCTCCAATATC  |
|   |   |
| **SEP-mNR1** |   |
| N1.up\_fwd  | tccgcgcacatttccccgactcgagaattcccacactgactagatggaacagaCCAATACGCTTCAGCACCTCGGACAG  |
| N1.up\_rev  | agccaccgccaccGGCAGCGCGGGCGAAGGA  |
| N1.SEP\_fwd  | cgcccgcgctgccGGTGGCGGTGGCTCTAGAAG  |
| N1.SEP\_rev  | cgcaggcagcgcgGGATCCGCCACCGCCTGA  |
| N1.dn\_fwd  | cggtggcggatccCGCGCTGCCTGCGACCCC  |
| N1.dn\_rev  | ctcgctgtatcgctcgagggatccgaattcccgcgcgggtgttcgagcagcgcTCACCAATGATAGTCACATGACAGCACACATGGTCC  |
|   |   |
| **SEP-mNR2A** |   |
| 2A.up\_fwd  | tccgcgcacatttccccgactcgagaattcacaccgagcaattctcacaaaggAGATGGACATGGGTCGAAGAATGTGG  |
| 2A.up\_rev  | agccaccgccaccCTTCTCCGCCGCCGCGTT  |
| 2A.SEP\_fwd  | ggcggcggagaagGGTGGCGGTGGCTCTAGAAG  |
| 2A.SEP\_rev  | gagtacccttctcGGATCCGCCACCGCCTGA  |
| 2A.dn\_fwd  | cggtggcggatccGAGAAGGGTACTCCAGCG  |
| 2A.dn\_rev  | ctcgctgtatcgctcgagggatccgaattcgctcggcttggactgatacgtggTCAGAGGCCACTTAACCTG  |
|   |   |
| **SEP-mNR2B** |   |
| 2B.up\_fwd  | tccgcgcacatttccccgactcgagaattcccctgtgaaagggtcattcaatgGATTTTCTAGCATTCAGACACTTC  |
| 2B.up\_rev  | agccaccgccaccGCTCTTTTGGGAACGAGC  |
| 2B.SEP\_fwd  | ttcccaaaagagcGGTGGCGGTGGCTCTAGAAG  |
| 2B.SEP\_rev  | gggcgctcttttgGGATCCGCCACCGCCTGA  |
| 2B.dn\_fwd  | cggtggcggatccCAAAAGAGCGCCCCCAGC  |
| 2B.dn\_rev  | ctcgctgtatcgctcgagggatccgaattcccgcagacggagacgaggttcttCCTGAATGGGTCACGACC  |
|   |   |
| **SEP-mbeta2** |   |
| Gb2.up\_fwd  | tccgcgcacatttccccgactcgagaattcagtctggtcacactctaagggggGTGCGCATGCGCTCCACA  |
| Gb2.up\_rev  | agccaccgccaccATTGACACTAAAGAAAAAAATGACAATAACCAGGAATGAATAAAGAAG  |
| Gb2.SEP\_fwd  | ctttagtgtcaatGGTGGCGGTGGCTCTAGAAG  |
| Gb2.SEP\_rev  | ggtcattgacactGGATCCGCCACCGCCTGA  |
| Gb2.dn\_fwd  | cggtggcggatccAGTGTCAATGACCCTAGTAATATG  |
| Gb2.dn\_rev  | ctcgctgtatcgctcgagggatccgaattccccctttgatgttttggtacgccTCTTCTTGAAAGACCTCTC  |
|   |   |
| **GFP-Gephyrin** |   |
| gep.up\_fwd  | ctcgctgtatcgctcgagggatccgaattcgagaaacctccagcaagtcgcggCGCGGCCCGACTCCGCCC  |
| gep.up\_rev  | cccttgctcactctagaCATGTTTCCCAGCGCAGTCACCGCAC  |
| GFP\_fwd  | gctgggaaacatgtctagaGTGAGCAAGGGCGAGGAG  |
| GFP\_rev2 | cgagccaccgccaagCTTGTACAGCTCGTCCATGC  |
| gep.dn\_fwd  | cgagctgtacaagcttggcggtggctcgggcggaggtgggtcaGCGACCGAGGGAATGATC  |
| gep.dn\_rev  | tccgcgcacatttccccgactcgagaattccctcccggccggactcggggtcgCGGATAGTAGCCGTTGCG  |
|   |   |
| **SEP-rGluA1** |   |
| rA1.upSEP\_fwd  | gcacatttccccgactcgagcctcgtggcatttgacgagcatgGGTTGGACCAGGGCTTCTTTTTCG  |
| rA1.upSEP\_rev  | ggaaattggcGGATCCGCCACCGCCTGA  |
| rA1.dn\_fwd  | tggcggatccGCCAATTTCCCCAACAATATC  |
| rA1.dn\_rev  | aggaagcggaagagcgcccagggaagaccaaatctatggttggGGCATTTGACGAGCATGAAAC  |
|   |   |
| **SEP-rGluA2** |   |
| rA2.up\_fwd  | tccgcgcacatttccccgactcgagccgctattgtgtcaaaaggcataCAGAGGATCTAATTTGCTG  |
| rA2.up\_rev  | cgccaccactagaTATGCTGTTAGAAGAGACAC  |
| rA2.SEP\_fwd  | ttctaacagcataTCTAGTGGTGGCGGTGGC  |
| rA2.SEP\_rev  | tctgtatgctgttGGATCCGCCACCGCCTGA  |
| rA2.dn\_fwd  | cggtggcggatccAACAGCATACAGATAGGTAG  |
| rA2.dn\_rev  | gagcgaggaagcggaagagcgcccaatatcgacctcacaatgcagaggTTGTGTCAAAAGGCATAC  |
|   |   |
| **PCR primers for AAV constructs** |   |
| **SEP-GluA1 & SEP-GluA2** |   |
| donor\_fwd  | ccatcactaggggttcctgcggccgcACATTTCCCCGACTCGAG  |
| donor\_rev  | agcaaaaggccagCGCTCGAGGGATCCGAATTC  |
| 2guides\_fwd  | ccctcgagcgCTGGCCTTTTGCTCACATG  |
| 2guides\_rev  | ccatcactaggggttcctgcggccgcTTATGTAACGGGTACCACC  |