**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 |