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| Primer list: |
| *Kv1.1/Kv1.2 Chimeras:* |
| Kv1.1-Forward | GGGCTCGAGATGACGGTGATGTCTGGGGAG |
| 1.1/1.2-S1 | GAAACTCATTTTCAGGCAGGGGGCGCTCCTCCTCCTTGATGAAGC |
| 1.1/1.2-S2 | CTCTACGATGAAGAAAGGGTCTGTGAAGATGTTGGAATTGTAG |
| 1.1/1.2-S3 | GCCACAATGTCAATGATGTTCATGATGTTTTTGAAGAAGTCCGTCTTGC |
| 1.1/1.2-Pore | GGGGAACTGGGAATCTCGCTCATCCGCCTCGGCAAAGTACACTGCACTAG |
| Kv1.2-Reverse | GGGGAAGCTTTTCAGACATCAGTTAACATTTTGG |
| *Kv1.2(Kv1.1VSD) Chimera:* |
| Kv1.2-Forward | GGGCTCGAGATGACAGTGGCTACCGGAG |
| Kv1.2 N-term Reverse | CCTTCTCGGGCAGAGGACGTTCTTCTTCCTTGATATAG |
| *Kv1.1(Kv1.2VSD) Chimera:* |
| Kv1.1 Reverse | CCCGGATCCTTAAACATCGGTCAGTAGCTTG |
| Kv1.1 Pore Forward | AGAGAGCTAGGGCTGCTCATC |
| *Kv1.2(Kv1.1-S3/S4) Chimera:* |
| Kv1.2(1.1-S3/S4)-forward | ATAGCTGAGCAGGAAGGAAACCAG |
| Kv1.2(1.1-S3/S4)-reverse | CCTTCCTGCTCAGCTATCTCTGTCCCCAGGGTG |
| *Kv1.2/Kv1.5 Chimeras:* |
| Kv1.5-Reverse | GGGTTCGAATCACAAATCTGTTTCCCG |
| S1 chimera | GAGAGCTCTGGGTCCGCG (breakpoint Kv1.2 154/Kv1.5 241) |
| S3 chimera | ATGAACATCATCGATGTG (breakpoint Kv1.2 255/Kv1.5 347) |
| Pore chimera | ATCTTCTTCCTCTTCATC (breakpoint Kv1.2 332/Kv1.5 438) |
| C-terminal chimera | CACCGGGAAACCGATCAC (breakpoint Kv1.2 417/Kv1.5 523) |
| 1.5S1F | GAGAGCTCTGGGTCCGCG |
| 1.5S1R | GGTCTCCAAGCAGAAGGTG |
| 1.5S1S2F | GAGTTCAGGGATGAACGTG |
| 1.5S1S2R | CCTGGGCAGGAGCGGTGCCAC |
| 1.5S2F | ACCCTGGCCGACCCCTTCTTC |
| 1.5S2R | GCAGGCGAAGAAGCGCAC |
| 1.5S2S3F | CCCAGCAAGGCAGGGTTCTCC |
| 1.5S2S3R | GAAGTAGGGGAAGATGGCCAC |
| *Point Mutants:* |
| Kv1.1[Y379T] | CGGTCACATGACCCCTGTGACAATTG |
| Kv1.1[V168I] | GGGCCCGCCAGGATCATCGCCATCGTC |
| Kv1.1[V168A] | GGGCCCGCCAGGGCCATCGCCATCGTC |
| Kv1.2[P161S] | GAGCTCAGGGTCTGCCAGGATCATAG |
| Kv1.2[I164A] | CCGGCCAGGGCCATAGCCATTG |
| Kv1.2[M171L] | GTATCTGTGTTGGTCATTCTG |
| Kv1.2[V178I] | GATCTCGATCATCAGCTTCTGTC |
| Kv1.2[S179T] | CTCGATCGTCACCTTCTGTCTG |
| Kv1.2[I257F] | CATCATGAACTTCATTGACATTGTGGC |
| *ShRNAs:* |
| ShR1 | GCAATATCACGCTGCTCAA |
| ShR2 | GCAGAAGTTGTCCTTTGAA |
| ShR3 | GGAACATTGTGTTGGCTTTG |
| ShR4 | GCATTGGCTTCGCCATCAT |
| Negative control | GCAGTTATCTGGAAGATCAGG |