

Supplementary Table 1: Primers used for constructions or sequences

	Primers
pAAV-CaMKII- ProX-ID-HA	Forward 5'- AGCGGGGCTAGCGCTACCGGTGCCACCATGCTGTGCTGTATGAGAAGAACCAAACAGGT TGAAAAGAATGATGAGGACCAAAGATCGCCGAATTCATGGACTTCAAGAACCTGATCTG GCTGAAGG -3' Reverse 5'- TCTGCCCTCTGTCTGACTGCGTAATCCGGTACATCGTAAGGGTAGGTACCCCTTCTCCTTG AACTTCTTCAGGTTCTCGCTGATT-3'
pAAV-CaMKII- ProX-ID-HA Sequence primer 1	5'-AAGCAATAGCATGATACAAAGGCATTAAGCA-3'
pAAV-CaMKII- ProX-ID-HA Sequence primer 2	5'-TTTTAAAGTGAAAGGCAGGCAGGTGTT-3'
pAAV-CaMKII- axon-mCherry	Forward 5'- AATCCTGGCCCAAGATCTACCATGCTGTGCTGTATGAGAAGAACCAAACAGGTTGAAAA-3' Reverse 5'- ATCGTCAGTCAGATATCTTACTTGTACAGCTCGTCCATGCCGCCGGTGGAGTGG-3'
pAAV-CaMKII- axon-mCherry Sequence primer	5'-AAGCAATAGCATGATACAAAGGCATTAAGCA-3'
pAAV-U6- 3xsgRNA(Bltp2)_ hSyn-mCherry- KASH-bGH Sequence primer 1	5'- ATGCGCAATTTGGGGAATGGGGGTT -3'
pAAV-U6- 3xsgRNA(Bltp2)_ hSyn-mCherry- KASH-bGH Sequence primer 2	5'-GACTATCATATGCTTACCGT-3'

pAAV-U6- 3xsgRNA(Scramb les)_hSyn- mCherry-KASH- bGH Sequence primer 1	5'- ATGCGCAATTTGGGGAATGGGGGTT-3'
pAAV-U6- 3xsgRNA(Scramb les)_hSyn- mCherry-KASH- bGH Sequence primer 2	5'-GACTATCATATGCTTACCGT-3'
pAAV-Ef1a-DIO- mCherry-shRNA- Scramble Sequence primer	5'-AAGCAATAGCATGATACAAAGGCATTAAGCA-3'
pAAV-Ef1a-DIO- mCherry-shRNA- Bltp2#1 Sequence primer	5'-AAGCAATAGCATGATACAAAGGCATTAAGCA-3'
pAAV-Ef1a-DIO- mCherry-shRNA- Bltp2#2 Sequence primer	5'-AAGCAATAGCATGATACAAAGGCATTAAGCA-3'