

Designation	Sequence 5' to 3'	Designation	Sequence 5' to 3'
AAV2 VP-K33R-F	ACCACCACCAAGGCCCGCAGAGC	AAV2 VP-K142+143R-F	ACGGCTCCGGGAAGAAGGAGGCCGGT
AAV2 VP-K33R-R	CGCTCTGCGGGCCTTGGTGGT	AAV2 VP-K142+143R-R	CTCTACCGGCCTCCTTCTCCCGGAG
AAV2 VP-K39R-F	AGCGGCATAGGGACGACAGCAG	AAV2 VP-K161R-F	TCGGGAACCGGAAGGGCGGGCCA
AAV2 VP-K39R-R	TGCTGTCGTCCCTATGCCGCTCT	AAV2 VP-K161R-R	TGCTGGCCCGCCTTCCGGTTC
AAV2 VP-K51R-F	TTCCTGGGTACAGGTACCTCGGAC	AAV2 VP-K169R-F	CAGCCTGCAAGAAGAAGATTGAATT
AAV2 VP-K51R-R	AGGGTCCGAGGTACCTGTACCCAG	AAV2 VP-K169R-R	CAAAATTCAATCTTCTTCTGCAG
AAV2 VP-K61R-F	TCAACGGACTCGACAGGGGAGAGC	AAV2 VP-K527R-F	GGCCCGGCCATGGCAAGCCAAGGGACGATGAAGAAAAGTTT
AAV2 VP-K61R-R	GCTCTCCCTGTGCGAGTCCGTTGA	AAV2 VP-K527R-R	AGGAAAAAAGTTTCTTCATCGTCCCTGTGGCTTGCCATGGCCG
AAV2 VP-K77R-F	TCGAGCACGACAGAGCCTACGACC	AAV2 VP-K532R-F	CGATGAAGAAAGGTTTTTCTCAGAGC
AAV2 VP-K77R-R	CGGTCGTAGGCTCTGTCGTGCT	AAV2 VP-K532R-R	TCTGAGGAAAAAACCTTTCTTCATCG
AAV2 VP-K92R-F	AACCCGTACCTCAGGTACAACCACG	AAV2 VP-K549R-F	CAAGGCTCAGAGAGAACAAATGTGGACATTG
AAV2 VP-K92R-R	GTGGTTGTACCTGAGGTACGGGT	AAV2 VP-K549R-R	TTCAATGTCCACATTTGTCTCTGAGCCTTG
AAV2 VP-K105R-F	AGGAGCGCCTTAGAGAAGATACGTCTT	AAV2, VP2+VP3 (VP1 silence)-F	ATTTAAATCAGGTCCGGCTGCCGATGGTTATCT
AAV2 VP-K105R-R	AAAAGACGTATCTTCTCTAAGGCGCT	AAV2, VP2+VP3 (VP1 silence)-R	AACCATCGGCAGCCGCACCTGATTTAAATCATT
AAV2 VP-K137R-F	AGGAACCTGTTAGGACGGCTCC	AAV2, VP1+VP3 (VP2 silence)-F	AGGAACCTGTTAAGACCGCTC
AAV2 VP-K137R-R	CCCGGAGCCGTCTAACAGGTT	AAV2, VP1+VP3 (VP2 silence)-R	TTTTCCCGGAGCGGTCTTAAC

Supplementary table 1. Oligonucleotides for mutagenesis PCR

Designation	Sequence 5' to 3'
AAV2, VP2 only-F	AAAGTCGACACGGCTCCGGGAAAAAAG (Sall)
AAV2, VP2 only-R	AAAAGCGGCCGCTTACAGATTACGAGTCAGG (NotI)
AAV, reporter Gam1-F	AAAGCGGCCGCATGGAACAAAACTCATCTC (NotI)
AAV, reporter Gam1-R	AAAGCGGCCGCTTACAGAGAATGGTAGGGGT (NotI)
qPCR AAV CMV Primer- CMV enhancer-329F	TGC CCA GTA CAT GAC CTT ATG G
qPCR AAV CMV Primer- CMV enhancer-462R:	GAA ATC CCC GTG AGT CAA ACC
qPCR AAV CMV Probe- CMV enhancer-383T	6-FAM AGT CAT CGC TAT TAC CAT GG-MGB

Supplementary table 2. Oligonucleotides for conventional PCR and qPCR Primer/Probe