

附表 引物序列

Supplementary table Primers sequences

引物名称	引物序列	用途
Primer name	Primer sequences (5'-3')	Purpose
EGFP-F	AAGGACGACGGCAACTACAA	rAAV 基因组滴度 qPCR 检测
EGFP-探针	AGTTCGAGGGCGACACCCTG	rAAV 基因组滴度 qPCR 检测
EGFP-R	TCCTTGAAGTCGATGCCCTT	rAAV 基因组滴度 qPCR 检测
Rep-F	GCAACTACCGGAAGACCAA	<i>rep</i> 基因总转录水平检测
Rep-R	CGACACAGTCGTTGAAGGGA	<i>rep</i> 基因总转录水平检测
Rep78/68-F	ATCCCAATTCTGATGCGCCG	<i>Rep78/68</i> 基因转录水平检测
Rep78/68-R	TAATCCCCTTGTCACGAGC	<i>Rep78/68</i> 基因转录水平检测
Cap-F	CCCAGCTACAACAACCACCA	<i>cap</i> 基因转录水平检测
Cap-R	TGGCTGTGGAAGCGGTAAA	<i>cap</i> 基因转录水平检测
<i>GAPDH</i> -F	CTGACTTCAACAGCGACACC	内参基因 <i>GAPDH</i> 转录水平
<i>GAPDH</i> -R	TGCTGTAGCCAAATTCGTTG	内参基因 <i>GAPDH</i> 转录水平
OBD-random-F	ATGCCGGGGTTTTACGAGAT	Rep 蛋白 OBD 区域随机突变文库构建
OBD-random-R	TTCTCTTTGTTCTGCTCCTG	Rep 蛋白 OBD 区域随机突变文库构建
vector-random -F	AGCAGAACAAAGAGAATCAGAA	随机突变文库载体骨架扩增
vector-random -R	CGTAAAACCCCGGCATGGCGG	随机突变文库载体骨架扩增
P39A-F	GAGTTGCCGGCCGATTCTGACA TGGAT	Rep 蛋白 P39 位点饱和突变, 下同
P39C-F	GAGTTGCCGTGCGATTCTGACA TGGAT	
P39D-F	GAGTTGCCGGACGATTCTGACA TGGAT	
P39E-F	GAGTTGCCGGAGGATTCTGACA TGGAT	
P39F-F	GAGTTGCCGTTTGATTCTGACA TGGAT	
P39G-F	GAGTTGCCGGGGGATTCTGACA TGGAT	
P39H-F	GAGTTGCCGCACGATTCTGACA TGGAT	

引物名称	引物序列	用途
Primer name	Primer sequences (5'–3')	Purpose
P39I-F	GAGTTGCCGATTGATTCTGACA TGGAT	
P39K-F	GAGTTGCCGAAGGATTCTGACA TGGAT	
P39M-F	GAGTTGCCGATGGATTCTGACA TGGAT	
P39N-F	GAGTTGCCGAATGATTCTGACA TGGAT	
P39Q-F	GAGTTGCCGCAGGATTCTGACA TGGAT	
P39R-F	GAGTTGCCGCGCGATTCTGACA TGGAT	
P39S-F	GAGTTGCCGTCCGATTCTGACA TGGAT	
P39T-F	GAGTTGCCGACTGATTCTGACA TGGAT	
P39V-F	GAGTTGCCGGTGGATTCTGACA TGGAT	
P39W-F	GAGTTGCCGTGGGATTCTGACA TGGAT	
P39Y-F	GAGTTGCCGTACGATTCTGACA TGGAT	
P39A-R	ATCGGCCGGCAACTCCCATT	
P39C-R	ATCGCACGGCAACTCCCATT	
P39D-R	ATCGTCCGGCAACTCCCATT	
P39E-R	ATCCTCCGGCAACTCCCATT	
P39F-R	ATCAAACGGCAACTCCCATT	
P39G-R	ATCCCCCGGCAACTCCCATT	
P39H-R	ATCGTCCGGCAACTCCCATT	
P39I-R	ATCAATCGGCAACTCCCATT	
P39K-R	ATCCTTCGGCAACTCCCATT	
P39M-R	ATCCATCGGCAACTCCCATT	
P39N-R	ATCATTCGGCAACTCCCATT	

引物名称	引物序列	用途
Primer name	Primer sequences (5'-3')	Purpose
P39Q-R	ATCCTGCGGCAACTCCCATT	
P39R-R	ATCGCGCGGCAACTCCCATT	
P39S-R	ATCGGACGGCAACTCCCATT	
P39T-R	ATCAGTCGGCAACTCCCATT	
P39V-R	ATCCACCGGCAACTCCCATT	
P39W-R	ATCCCACGGCAACTCCCATT	
P39Y-R	ATCGTACGGCAACTCCCATT	
Q202A-F	GCAGGAGGCCAACAAAGAGAA TCAG	Rep 蛋白 Q202 位点饱和突变, 下同
Q202C-F	GCAGGAGTGCAACAAAGAGAA TCAG	
Q202D-F	GCAGGAGGACAACAAAGAGAA TCAG	
Q202E-F	GCAGGAGGAGAACAAAGAGAA TCAG	
Q202F-F	GCAGGAGTTTAACAAAGAGAA TCAG	
Q202G-F	GCAGGAGGGGAACAAAGAGAA TCAG	
Q202I-F	GCAGGAGATTAACAAAGAGAA TCAG	
Q202K-F	GCAGGAGAAGAACAAAGAGAA TCAG	
Q202L-F	GCAGGAGCTGAACAAAGAGAA TCAG	
Q202M-F	GCAGGAGATGAACAAAGAGAA TCAG	
Q202N-F	GCAGGAGAATAACAAAGAGAA TCAG	
Q202P-F	GCAGGAGCCAAACAAAGAGAA TCAG	
Q202R-F	GCAGGAGCGCAACAAAGAGAA TCAG	

引物名称	引物序列	用途
Primer name	Primer sequences (5'-3')	Purpose
Q202S-F	GCAGGAGTCCAACAAAGAGAA TCAG	
Q202T-F	GCAGGAGACTAACAAAGAGAA TCAG	
Q202V-F	GCAGGAGGTGAACAAAGAGAA TCAG	
Q202W-F	GCAGGAGTGGAACAAAGAGAA TCAG	
Q202Y-F	GCAGGAGTACAACAAAGAGAA TCAG	
Q202A-R	TTGTTGGCCTCCTGCGTCTGC	
Q202C-R	TTGTTGCACTCCTGCGTCTGC	
Q202D-R	TTGTTGTCCTCCTGCGTCTGC	
Q202E-R	TTGTTCTCCTCCTGCGTCTGC	
Q202F-R	TTGTTAAACTCCTGCGTCTGC	
Q202G-R	TTGTTCCCCTCCTGCGTCTGC	
Q202I-R	TTGTTAATCTCCTGCGTCTGC	
Q202K-R	TTGTTCTTCTCCTGCGTCTGC	
Q202L-R	TTGTTGACCTCCTGCGTCTGC	
Q202M-R	TTGTTCATCTCCTGCGTCTGC	
Q202N-R	TTGTTATTCTCCTGCGTCTGC	
Q202P-R	TTGTTGGTCTCCTGCGTCTGC	
Q202R-R	TTGTTGCGCTCCTGCGTCTGC	
Q202S-R	TTGTTGGA CTCTCCTGCGTCTGC	
Q202T-R	TTGTTAGTCTCCTGCGTCTGC	
Q202V-R	TTGTTACCTCCTGCGTCTGC	
Q202W-R	TTGTTCCACTCCTGCGTCTGC	
Q202Y-R	TTGTTGTACTCCTGCGTCTGC	