

**Table S1 Oligo DNAs used in the present study****Oligo DNAs for adenovirus vector construction***BsaI-linker*

BsaI-U	CACCGGAGACCACGAATTCACACTGGGTCTCGTTTCCAGTAGATCTCCAG
BsaI-D	AAAACTGGAGATCTACTGGAAACGAGACCCAGTGTGAATTCGTGGTCTCC

*AmCyan cloning primers*

AmCyan_For	GGACAGGGATCCGGTAAGCGGCAGGGT
AmCyan_Rev	GACGTTGGATCCACGTTCTTTAATAGTGGA

*shNT*

shNT-U	CACCGGGCGCGATAGCGCTAATAATTTCTCGAGAAATTATTAGCGCTATCGCGCTTT
shNT-D	GAAAAAAGCGCGATAGCGCTAATAATTTCTCGAGAAATTATTAGCGCTATCGCGCCC

*shNEAT1a*

shNEAT1a-U	CACCGGGGAGTCGGTATTGTTGGTAATCTCGAGATTACCAACAATACCGACTCCTTT
shNEAT1a-D	GAAAAAAGGAGTCGGTATTGTTGGTAATCTCGAGATTACCAACAATACCGACTCCCC

*shNEAT1b*

shNEAT1b-U	CACCGGATGGACCGTGGTTTGTACTACTCGAGTAGTAACAAACCACGGTCCATTTT
shNEAT1b-D	GAAAAAAATGGACCGTGGTTTGTACTACTCGAGTAGTAACAAACCACGGTCCATCC

*shGBRPa*

shGBRPa_U	CACCGGCACCATGAAGAAGACTTCTTTCTCGAGAAAGAAGTCTTCTTCATGGTGTTT
shGBRPa_D	GAAAAAACACCATGAAGAAGACTTCTTTCTCGAGAAAGAAGTCTTCTTCATGGTGCC

*shGBRPb*

shGBRPb_U	CACCGGGTGCCTTCTGATCTCACAGTTCTCGAGAACTGTGAGATCAGAAGGCACTTT
shGBRPb_D	GAAAAAAGTGCCTTCTGATCTCACAGTTCTCGAGAACTGTGAGATCAGAAGGCACCC

**qPCR primers**

<i>Adenovirus titration</i>	<i>forward</i>	<i>reverse</i>
AdE2B_Titer	TGTCAAGCTTGGTGGCAAAC	TCGCGACAAAAACCAAACCC
<i>mRNA determination</i>	<i>sense</i>	<i>antisense</i>
β-actin	GATGCAGAAGGAGATCACTGC	TGATCCACATCTGCTGGAAG
CD13	CTGCAGCAAAGAGTTGTGGATC	TTGCCCAATGACGTTGTTGG
CD90	TGAGATCCCAGAACCATGAACC	TATTCTCATGGCGGCAGTCC
CD44	AAGGTGGAGCAAACACAACC	TCGACTGTTGACTGCAATGC
CD133	AATTCACCAGCAACGAGTCC	AATCCATTCCCTGTGCGTTG
EPCAM	ATAACCTGCTCTGAGCGAGTG	AACGCGTTGTGATCTCCTTC
GABARAP	ACAATGGGTCAGCTGTACCAG	AGACCGTAGACACTTTCGTCAC
total NEAT1	TGCCACAACGCAGATTGATG	ACAAGAAGGCAGGCAAACAG
NEAT1v2	AGGGTTCTGTTGCTAACACG	TGCCGATGAAGCAACAAAGC