

Product datasheet for KN219160

ST8SIA2 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control

Donor DNA: GFP-puro
Symbol: ST8SIA2
Locus ID: 8128

Components: KN219160G1, ST8SIA2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target

Sequence: CTGAGATGTCTGCGAAGATG

KN219160G2, ST8SIA2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target

Sequence: CAGAGATCGAAGAAGAAATC

KN219160D, donor DNA containing left and right homologous arms and GFP-puro functional

cassette.

Homologous arm and GFP-puro sequences:

 $\verb"pUC" vector backbone" in gray; Left arm sequence in blue; GFP-puro in green; Right arm$

 $\hbox{in violet}\\$

CTGGGGGCTG TCCCCAGGTG TTGGTCTTTG TGTCGAGAAA ACTTTGCGAG GAGGCGAGGG AGCTGGACAA AGAGCGGCCG AGGGAGGCCG TTTGCCAGCC TGAGGGGTGC GCCGGGCGGT GCGCGCACTT CCCTGGGCTC AGCTCCGTAC CCGGTCGCTC GCGGTGGCCA GAGCCCAGTC TCTCTAGGCC AGGAGTGGCG TCCGGCTGCA TCCCCGCGCC CTCGGGAGCT GAATAAAGCC AGGCGGGAGA AGCAAAGGCT AGCGCCTGGA CGCTGGAGTT GGAAGGGAGA GGAGGGAGGG AGGGCCAGGC GGGAGCCGGG AGGGAGCGAG CGGGCTCGCC GCGCCTGAGC AACCCCTGCC TGTCGCTGCC GCTGCCGCTG CCGCTGCCGC CGCCGGCCCG GACTCGTCCG GAGCGCAGGG TGTCTGCCCA GCTGCGCGG GCGCGGGAG GCTCCGGCGT CCGCCGCTGC GCCCTCCGGC CCCTGCTCCT CGCGCCGGCC CGCGTGGGTC CCGGCGGGCG CGAACCCACC CCCGTGCCAC GAGCCCTGGC GGGATCTCTC CCTCCTTCTG TACTCTCCAC CCTCCGACCC CCTTTGTGTG CGCCGCGCCC CGCTGTAGCT CCGCTGGAGA GATGGGGACG GTTTGGCAGA AGGTGGCGGC GACAGGGGCC CGGGACGGTT TGGGGAGAGG AGGGTGGGGG CGCGGCTGCT GTGGGGTGTC CCCGGGCGGG GTTCACGGGA AGCCCCCAGC TGGCCCGCGT CGGGAAGCGG ACTCGCCCAC CCTGCCCCC TGCCTGGCGT GTCCAAGCGC AGTGTCGCCG GGGTCGAGGG AGGGCGCCGG GGAGTGTCTC GGGCGGGCG AGGGGCCGAG AGTGGAGGGA GGCAGGAGTT TCTTTGTCTC CAGCACGGCC GCTTTCTCGC CTTGGCAAAG TGGGCAGGGG GCGCGCAGGG ATCTCTGAGC TGGGGGAGGG GTTCCTGGGG CCGGAGCGGA GGGCGGGGTT CTGCATGGC TACTGGGAAG CGGAATGTCC CCTGCACACA CAGACAGGCA CACGCGCCTC CCGCCGGCCC GGGAGCCCGG CGTAGGAGCT GGCACCACTA GAGAAGGGCT CGCATAGCTG **GACTGAGACC**

GE100003, scramble sequence in pCas-Guide vector



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ST8SIA2 Human Gene Knockout Kit (CRISPR) - KN219160

Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is

designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the

experimental process.

RefSeq: <u>NM 006011</u>, <u>NM 001330416</u>

UniProt ID: Q92186

Synonyms: HsT19690; SIAT8B; ST8SIA-II; STX

Summary: The protein encoded by this gene is a type II membrane protein that is thought to catalyze

the transfer of sialic acid from CMP-sialic acid to N-linked oligosaccharides and glycoproteins. The encoded protein may be found in the Golgi apparatus and may be involved in the production of polysialic acid, a modulator of the adhesive properties of neural cell adhesion molecule (NCAM1). This protein is a member of glycosyltransferase family 29. [provided by

RefSeq, Jul 2008]

Product images:

