ST6GAL1 cDNA Clone – ST6 Beta-Galactosamide Alpha-2,6-Sialyltranferase 1 (Human)

PRODUCT OVERVIEW

Product Name	ST6GAL1, cDNA Clone
Full Product Name	ST6GAL1 cDNA Clone
Product Gene Name	ST6GAL1 cdna clone
Sequence	atgattcaca ccaacctgaa gaaaaagttc agctgctgcg tcctggtctt tcttctgttt gcagtcatct gtgtgtggaa ggaaaagaag aaagggagtt actatgattc ctttaaattg caaaccaagg aattccaggt gttaaagagt ctggggaaat tggccatggg gtctgattcc cagtctgtat cctcaagcag cacccaggac ccccacaggg gccgccagac cctcggcagt ctcagaggcc tagccaaggc caaaccagag gcctccttcc aggtgtggaa caaggacagc tcttccaaaa accttatccc taggctgcaa aagatctgga agaattacct aagcatgaac aagtacaaag tgtcctacaa ggggccagga ccaggcatca agttcagtgc agaggccctg cgctgccacc tccgggacca tgtgaatgta tccatggtag aggtcacaga ttttcccttc aatacctctg aatgggaggg ttatctgccc aaggagagca ttaggaccaa ggctgggcct tggggcaggt gtgctgttgt gtcgtcagcg ggatctctga agtcctccca actaggcaga gaaatcgatg atcatgacgc agtcctgagg tttaatgggg cacccacagc caacttccaa caagatgtgg gcacaaaaac taccattcgc ctgatgaact ctcagttggt taccacagag aagcgcttcc tcaaagacag tttgtacaat gaaggaatcc taattgtatg ggacccatct gtataccact cagatatccc aaagtggtac cagaatccgg attataattt ctttaataac tacaagactt atcgtaagct gcaccccaat cagccctttt acatcctcaa gccccagatg ccttgggagc tatgggacat tcttcaagaa atctccccag aagagattca gccaaacccc ccatcctctg ggatgcttgg tatcatcatc atgatgacgc tgtgtgacca ggtggatatt tatgagttcc tcccatccaa gcgcaagact gacgtgtgct actactacca gaagttcttc gatagtgcct gcacgatggg tgcctaccac ccgctgctct atgagaagaa tttggtgaag catctcaacc agggcacaga tgaggacatc tacctgcttg gaaaagccac actgcctggc ttccggacca ttcactgcta a
Molecular Weight	20,764 Da
OMIM	109675
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ST6GAL1 cdna clone	MBS1276419 is a cDNA clone targeting ST6GAL1.
Other Notes	Small volumes of ST6GAL1 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ST6GAL1. It may not necessarily be applicable to this product.

NCBI GI #	45708715
NCBI GeneID	6480
NCBI Accession #	BC031476
UniProt Secondary Accession #	A8KA14; B2R513; D3DNV3
UniProt Related Accession #	P15907
NCBI Official Full Name	Homo sapiens ST6 beta-galactosamide alpha-2,6-sialyltranferase 1, mRNA
NCBI Official Synonym Full Names	ST6 beta-galactoside alpha-2,6-sialyltransferase 1
NCBI Official Symbol	ST6GAL1
NCBI Official Synonym Symbols	ST6N; SIAT1; ST6Gall

UniProt Protein Name	Beta-galactoside alpha-2,6-sialyltransferase 1
UniProt Synonym Protein Names	B-cell antigen CD75; CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,6-sialyltransferase 1; ST6Gal I; ST6GalI; Sialyltransferase 1
Protein Family	Beta-galactoside alpha-2,6-sialyltransferase
UniProt Gene Name	ST6GAL1
UniProt Synonym Gene Names	SIAT1; Alpha 2,6-ST 1; ST6GalI
UniProt Entry Name	SIAT1_HUMAN
NCBI Protein Information	beta-galactoside alpha-2,6-sialyltransferase 1
NCBI Summary for ST6GAL1	This gene encodes a member of glycosyltransferase family 29. The encoded protein is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The protein, which is normally found in the Golgi but can be proteolytically processed to a soluble form, is involved in the generation of the cell-surface carbohydrate determinants and differentiation antigens HB-6, CD75, and CD76. This gene has been incorrectly referred to as CD75. Three transcript variants encoding two different isoforms have been described. [provided by RefSeq, Aug 2009]
UniProt Comments for ST6GAL1	SIAT1: a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. Is normally found in the trans cisternae of the Golgi but which can be proteolytically processed to a soluble form, is involved in the generation of the cell-surface carbohydrate determinants and differentiation antigens HB-6, CDw75, and CD76. This protein is a member of glycosyltransferase family 29. Three transcript variants encoding two different isoforms have been found. Protein type: Transferase; Membrane protein, integral; Glycan Metabolism - N-glycan biosynthesis; EC 2.4.99.1 Chromosomal Location of Human Ortholog: 3q27.3 Cellular Component: Golgi membrane Molecular Function: beta-galactoside alpha-2,6-sialyltransferase activity; protein binding; sialyltransferase activity Biological Process: humoral immune response; N-acetylneuraminate metabolic process; O-glycan processing; oligosaccharide metabolic process; protein amino acid N-linked glycosylation via asparagine
Research Articles on ST6GAL1	**1.** Collectively, our data indicate that ST6GAL1 plays an important role in the regulation of pluripotency and differentiation in hPSCs.
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