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Product datasheet for SC124841

CDw75 (ST6GAL1) (NM_173217) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDw75 (ST6GAL1) (NM_173217) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDw75
Synonyms:	SIAT1; ST6Gall; ST6N
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_173217, the custom clone sequence may differ by one or more nucleotides

ATGAACTCTCAGTTGGTTACCACAGAGAAGCGCTTCCTCAAAGACAGTTTGTACAATGAAGGAATCCTAA
TTGTATGGGACCCATCTGTATACCACTCAGATATCCCAAAGTGGTACCAGAATCCGGATTATAATTTCTT
TAACAACTACAAGACTTATCGTAAGCTGCACCCCAATCAGCCCTTTTACATCCTCAAGCCCCAGATGCCT
TGGGAGCTATGGGACATTCTTCAAGAAATCTCCCCAGAAGAGATTCAGCCAAACCCCCCATCCTCTGGGA
TGCTTGGTATCATCATCATGATGACGCTGTGTGACCAGGTGGATATTTATGAGTTCCTCCCATCCAAGCG
CAAGACTGACGTGTGCTACTACTACCAGAAGTTCTTCGATAGTGCCTGCACGATGGGTGCCTACCACCCG
CTGCTCTATGAGAAGAATTTGGTGAAGCATCTCAACCAGGGCACAGATGAGGACATCTACCTGCTTGGAA
AAGCCACACTGCCTGGCTTCCGGACCATTCACTGCTAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_173217 unedited
GGCCGCGAATTCGGCACGAGAGATTTTCCCTTCAATACCTCTGAATGGGAGGGTTATCTG
CCCAAGGAGAGCATTAGGACCAAGGCTGGGCCTTGGGGCAGGTGTGCTGTTGTGTCGTCA
GCGGGATCTCTGAAGTCCTCCCAACTAGGCAGAGAAATCGATGATCATGACGCAGTCCTG
AGGTTTAATGGGGCACCCACAGCCAACTTCCAACAAGATGTGGGCACAAAAACTACCATT
CGCCTGATGAACTCTCAGTTGGTTACCACAGAGAAGCGCTTCCTCAAAGACAGTTTGTAC
AATGAAGGAATCCTAATTGTATGGGACCCATCTGTATACCACTCAGATATCCCAAAGTGG
TACCAGAATCCGGATTATAATTTCTTTAACAACTACAAGACTTATCGTAAGCTGCACCCC
AATCAGCCCTTTTACATCCTCAAGCCCCAGATGCCTTGGGAGCTATGGGACATTCTTCAA
GAAATCTCCCCAGAAGAGATTCAGCCAAACCCCCCATCCTCTGGGATGCTTGGTATCATC
ATCATGATGACGCTGTGTGACCAGGTGGATATTTATGAGTTCCTCCCATCCAAGCGCAAG
ACTGACGTGTGCTACTACTACCAGAAGTTCTTCGATAGTGCCTGCACGATGGGTGCCTAC
CACCCGCTGCTCTATGAGAAGAATTTGGTGAAGCATCTCAACCAGGGCACAGATGAGGAC
ATCTACCTGCTTGGAAAGC

Restriction Sites: NotI-NotI

ACCN: NM_173217

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_173217.1, NP_775324.1

RefSeq Size: 3746 bp

RefSeq ORF: 528 bp

Locus ID: 6480

UniProt ID: P15907

Cytogenetics: 3q27.3

Protein Families: Secreted Protein

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

Gene Summary:

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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2017]
Transcript Variant: This variant (3) lacks the exon containing the translation start site compared to variant 1, resulting in an isoform (b) with a shorter N-terminus compared to isoform a. Isoform b is likely to be a soluble rather than membrane-bound protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.