

Product datasheet for **SC109756**

CDw75 (ST6GAL1) (NM_003032) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDw75 (ST6GAL1) (NM_003032) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDw75
Synonyms:	SIAT1; ST6Gall; ST6N
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003032, the custom clone sequence may differ by one or more nucleotides

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ATGATTACACCAACCTGAAGAAAAAGTTCAGCTGCTGCGTCCTGGTCTTTCTTCTGTTTGCAGTCATCT
GTGTGTGGAAGGAAAAGAAGAAAGGGAGTTACTATGATTCCTTTAAATTGCAAACCAAGGAATCCAGGT
GTTAAAGAGTCTGGGAAATTGGCCATGGGGTCTGATTCCAGTCTGTATCCTCAAGCAGCACCCAGGAC
CCCCACAGGGGCCGACACCCTCGGCAGTCTCAGAGGCCTAGCCAAGGCCAAACCAGAGGCCTCCTTCC
AGGTGTGGAACAAGGACAGCTCTTCCAAAAACCTTATCCCTAGGCTGCAAAGATCTGGAAGAATTACCT
AAGCATGAACAAGTACAAAGTGCCTACAAGGGGCCAGGACCAGGCATCAAGTTCAGTGCAGAGGCCCTG
CGCTGCCACCTCCGGGACCATGTGAATGTATCCATGGTAGAGTACAGATTTTCCCTTCAATACCTCTG
AATGGGAGGGTTATCTGCCAAGGAGAGCATTAGGACCAAGGCTGGGCCTTGGGGCAGGTGTGCTGTTGT
GTCGTCAGCGGGATCTCTGAAGTCTCCCAACTAGGCAGAGAAATCGATGATCATGACGCAGTCTGAGG
TTAATGGGGCACCCACAGCCAACCTTCCAACAAGATGTGGGCACAAAACTACCATTGCGCTGATGAACT
CTCAGTTGGTTACCACAGAGAAGCGCTTCTCAAAGACAGTTTGTACAATGAAGGAATCCTAATTGTATG
GGACCCATCTGTATACCACTCAGATATCCCAAAGTGGTACCAGAATCCGGATTATAATTTCTTTAACAA
TACAAGACTTATCGTAAGCTGCACCCCAATCAGCCCTTTACATCCTCAAGCCCCAGATGCCTTGGGAGC
TATGGGACATTCTCAAGAAATCTCCCCAGAAGAGATTCAGCCAAACCCCCATCCTCTGGGATGCTTGG
TATCATCATGATGACGCTGTGTGACCAGGTGGATTTTATGAGTTCCTCCCATCCAAGCGCAAGACT
GACGTGTGCTACTACTACCAGAAGTCTTCGATAGTGCCTGCACGATGGGTGCCTACCACCGCTGCTCT
ATGAGAAGAATTTGGTGAAGCATCTCAACCAGGGCACAGATGAGGACATCTACCTGCTTGAAAAAGCCAC
ACTGCCTGGCTCCGGACCATTCACTGCTAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003032 unedited</p> <pre> CCCCCATTTCCCCCGTTGCCGCTTTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATAT AAGCAGTTTTTCATTTACGTGACACTATAGGGGACAGGCTACTTGTCTTTATGCAGCGGC CGCGAATTCGGCACGAGGATAAACCTTCCCTCCCATGGATAATAGTGCTAATTCCTGAGG ACCTGAAGGGCCTGCCGCCCTGGGGGATTAGCCAGAAGCAGGCTTGTTTCTGCTCAG AACAAAGGGAGTCCCTGAACACATCTTCATTATGATTCACACCAACCTGAAGAAAAAGT TCAGCTGCTGCGTCCCTGGTCTTTCTTCTGTTTGCAGTCATCTGTGTGGAAGGAAAAGA AGAAAGGGAGTTACTATGATTCCTTTAAATTGCAAACCAAGGAATTCAGGTGTTAAAGA GTCTGGGAAAATTGGCCATGGGGTCTGATTCACAGTCTGTATCCTCAAGCAGCACCCAGG ACCCCCACAGGGGCCAGACCCTCGGCAGTCTCAGAGGCTAGCCAAGGCCAAACCAG AGGCTCCTTCCAGGTGTGGAACAAGGACAGCTTCCAAAAACCTTATCCCTAGGCTGC AAAAGATCTGGAAGAATTACCTAAGCATGAACAAGTACAAAGTGTCTACAAGGGGCCAG GACCAGGCATCAAGTTCAGTGCAGAGGCCCTGCGTGCCACCTCCGGGACCATGTGAATG TATCCATGGTAGAGTCCACAGATTTTCCCTTCAATACCTCTGCATGGGAGGTTATCTGC TCAAGGAGAGCATTAGGACCAAGGCTGGGCCTTGGGGCACGTGTGCTGTTGTGCTGTCAG CGGGATCTCTGAAGTCTNCCTACTAGGCAGAGACATCGATGATCTGGACGCAGTCTGA GGT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003032 unedited</p> <pre> GTTTACCAGAAATACTATGNACCGCGCCGCTTTCTANNGATCGGTTTTTTTTTTTTTTTT TTAAAGAACACACACACATTTATTTTATAATTTGACATAATCCTTGGGTAATTATTAGCA TTTTTCAGAAAGTTCCGAGACTGATATCTCAACTCCAAACCAATAGCAATAGCTTATTTG ATTGGTGAAGGATTAGAGAGGGTCCCATGATCCAGATGAATAGATGGCTATCAAAGAAG ACAGAACCCCATAGACACAGGCAGCATTAAAGTCATAATTTTTAAATTAAGTGCACAAAT ATGAAACATCTCACAGACCAATGATAACGTCCATATCATAATTTGCATTTTACCAAAGT GTCCACATAGACAGCACAGAACTAAAAGTCTGTAGACTTCAGAAATCATATTTAAATTA TTTGATCCTTTATATTAATAATAATTAATAAACTAGATTCTACCCAGTGTGCTCCAGTCT TCACACCAACATGTATGTCTGTGTCGGAATGCCACCTCCTCTGCACTCAGTGTGTCATGA TTCGAAGATTAATAATCAGTGTGTCAAATCAGAACATAAACCAAGCCAGGAATTCATGGGC CCAGAGAGGGGTAAAGGGCTTGTCTATACAGCAGTTAAGCAGCCACGTGCTCCGCCCA TTCCCAAGCAGAATCAGATTGGAGCTGCANGCANGCAGGAGGAGGCGTGTCTGTGTTG TCCACTGCTTTGCATGGTTTCTTGGGTGTTCCAAGGAGGACAGTTGTTGTCTCCATAAG ACAGTTAATTCCTGAGGACGGACCTCTNCAACTAGCCTNCGTCACAGCAGGGTGCATG CAGNCCGAGTGTGAGCAC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_003032
Insert Size:	4700 bp
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_003032.2](#), [NP_003023.1](#)

RefSeq Size: 4295 bp

RefSeq ORF: 1221 bp

Locus ID: 6480

UniProt ID: [P15907](#)

Cytogenetics: 3q27.3

Domains: Glyco_transf_29

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 (2) differs in the 5' UTR compared to variant 1. The promoter and 5' terminal exon sequence is from an endogenous retroviral LTR (PMID: 8724135). Variant 2 is expressed in mature B lymphocytes and variants 1, 2 and 4 encode the same protein (isoform a).