

Product datasheet for **SC322722**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322722
GAGGAGGTTCTGTAGGGCGGCACAACCAAGGGCGTGGAAAGCTCGATCCCTTCTC
CCATACCTTGCTCTACACATCTTTCATCTGTATCCTCTGCAGCATCCTTGATGATAAAC
CAGTAAATATGAGTTTTGATCATCTGAGAAAAATGGGCCTTGGCCTGCAGACCCAATAA
ACCTTCCCTCCCATGGATAATAGTGCTAATTCCTGAGGACCTGAAGGGCCTGCCGCCCT
GGGGGATTAGCCAGAAGCAGGCTTGTTCCTGCTCAGAACAAGTGACTTCCCTGAACA
CATCTTCATTATGATTCACACCAACCTGAAGAAAAAGTTCAGCTGCTGCGTCTGGTCTT
TCTTCTGTTTGCAGTCATCTGTGTGTGGAAGGAAAAGAAGAAAGGGAGTACTATGATTC
CTTTAAATGCAAACCAAGGAATCCAGGTGTTAAAGAGTCTGGGAAAATGGCCATGGG
GTCTGATCCCAGTCTGTATCCTCAAGCAGCACCAGGACCCCAAGGGGCCGACAGAC
CCTCGGCAGTCTCAGAGGCTAGCCAAGGCCAAACCAGAGGCCTCCTCCAGGTGTGGAA
CAAGGACAGCTCTCCAAAAACCTTATCCCTAGGCTGCAAAAAGATCTGGAAGAATTACCT
AAGCATGAACAAGTACAAAGTGTCTACAAGGGGCCAGGACCAGGCATCAAGTTCAGTGC
AGAGGCCCTGCGCTGCCACCTCCGGGACCATGTGAATGTATCCATGGTAGAGGTACAGA
TTTTCCCTTCAATACCTCTGAATGGGAGGGTTATCTGCCCAAGGAGAGCATTAGGACCA
GGCTGGCCTTGGGGCAGGTGTGCTGTTGTGTCGTCAGCGGGATCTCTGAAGTCTCCCA
ACTAGGCAGAGAAATCGATGATCATGACGCAGTCTGAGGTTTAAATGGGGCACCCACAGC
CAACTTCCAACAAGATGTGGGCACAAAACTACCATTGCGCTGATGAACCTCAGTTGGT
TACCACAGAGAAGCGCTTCTCAAAGACAGTTTGTACAATGAAGGAATCCTAATTGTATG
GGACCCATCTGTATACCACTCAGATATCCCAAAGTGGTACCAGAATCCGGATTATAATTT
CTTTAACAACACTACAAGACTTATCGTAAGCTGCACCCCAATCAGCCCTTTTACATCCTCAA
GCCCCAGATGCCTTGGGAGCTATGGGACATTCTCAAGAAATCTCCCAGAAAGAGATTCA
GCCAAACCCCATCCTCTGGGATGCTTGGTATCATCATGATGACGCTGTGTGACCA
GGTGGATATTTATGAGTTCCTCCATCCAAGCGCAAGACTGACGTGTGCTACTACTACCA
GAAGTTCCTCGATAGTGCCTGCACGATGGGTGCCTACCACCCGCTGCTCTATGAGAAGAA
TTTGGTGAAGCATCTCAACCAGGCACAGATGAGGACATCTACCTGCTTGGAAAAGCCAC
ACTGCCTGGCTCCGGACCATTACTGCTAAGCACAGGCTCCTACTCTTCTCCATCAGG



[View online »](#)

CATTAATGAATGGTCTCTTGGCCACCCAGCCTGGGAAGAACATTTTCCTGAACAATTC
 CAGCCTGCCTCTTTACTCTAGGGGCTCTGTGACGAAGACCATGGGGGCTTCAAGAGCC
 TGTGGTCAGGAAATCAGGTCCAGCCTTCCCTGTAGCCAGACAGTTTATGAGCCCAGAGCC
 TCCTGCCACACACATGCACACATATCTAGCATTCTTCCAGACAGCATCTCCCCGCCTT
 CCACCTTGGTAGATGCAAGGTCTATCTCTCCCATCAGGGCTGCCAAAGCTGGGCTTGT
 TTTCCCAGCAGAATGATGCCATTCTCACAAACCAATGCTCTATATTGCTTGAAGTCTGCA
 TCTAAATATTGATTTACGTTTTAAAGAAATTCTCTTAAATTACAATTGTGCCAATGCA
 GGGTGGCTCTGGGGGCAAGTAGGTGGTACAGGGGATTGGAAACATGCTCCGCGCCTCCA
 GAGAAAAGTTGCTCCCGAGGTCCATGCCCTGGAACGTGTTCTATCACTCTGGCTGGTT
 GGGCTGGTCTTAGACTGGGTGCTTATGATTAAGGGTCTTGGTTAGCCCACTTTCCTC
 TCCATGTGGAGATGGAAGGTAGAGAAGGATACAGTGTCTATCCTCAAGTTGCTACGGTTC
 AGTGAGAGAGGCAGACATCTGAACAGGCAGGTAGGATTCAGTGTGCTCAGTGCACCTGGG
 ATTTGGAGAGAGATGGGCTTGTCTCTGTGCACCCAGGAGGGCCACGCACTTAAACT
 GTGTTTGTGGATCAGAGAAGGCTTATAGCACAGGGGCATTAGATGAGTCTTAGAGGA
 AGAGAAGAAACATGGCAAGCAGATTACATCTGAGCCGTTTGAATTGTGTTTTCTTCTT
 CCCATGTTATTTTCTAAGATCTACCTGAACTTAGAGACTCAAGATATTTTTTAGGAAA
 CCTCTACCCATGTCTGAGGTAGCAAGTGCAGCCTCACGACAGATACCAGGCAATCCAGA
 GCCACAAAACGTATTCTCCAGGCTCTGCCTGGCCTGACCCTGTCTGTGAGCTGGGT
 TACATACCAGTCCCATTCTCTTTTCAATACCTACCCCAAATCTTCTCCTAACCACCA
 TCTGTTTTTTTTTTTTAAAGCATTTTTTGTCTTAAAGCATCCTGACCCAAATTTCTTTG
 AGCTCACGGGCTTTTGTGAAGTCTCTCAGGGTGTAGTGGTGTGGCTCTCTGGACTTA
 ACGTCACTCTCAGAGTCAAGACCTTGGAGATCAGAACTGATTCTCACCAGGTGTGAGAG
 GTGTGGTAGCAGATTGCAATGCTCTGCACCTCTTCTTGAAGTGAAGTCACTCAGGCTC
 TCTGGGCAGAGGCTGGCCACTGTAGTTTGCAGACATGCTCTCCAGATGGTTTTACTAAG
 TCCCTCTCCCTGATAGGGAATCCTGCTGGACCAGCGCAGCCCTGGTGTGGAGAGTTAA
 AAGACTTGCACAGGATACCAAGTCATGCTGTAGAGCCAGGATCCTAGACCCAGGGCTC
 TGCACCTCAAGGCTGGCCCATGTGCTCAAGGGGTCTAATGTTTGGGCTCCAAACTAA
 CCATCTCGGAGCTGGGCTCCTCATTACTGCCAAACCCTCAGCTTATGTAGCTAGAAAGG
 GCCCTGGAGTGAGAAAGCCTGGATTTTCAAATTGATGCTCCCCTACTGACTAGCTGTGCC
 ACTCTGGGCAAATGCTCTTCTTGAGCCTGTTTCCACACCTGTAAAGTGGGGATGATGAT
 CCTATCTCACTGCTTTTGTGAGGATTACAGGAAAGCACCTGCTCCTGGCTCTGTACCTGGC
 ACGTAGTAGGTGCTCAGTTCATGCTGGTTTCTTCTCCTGCCTTATAGTAGGGACCTGCTCTG
 TGCTCACACCTCGGCTGCATGCACCCTGCTGTGACGGAGGCTAGTGTGGAAGAGGTCCTG
 TCCTCAGGGAATTAAGTGTCTTATTGGGAGACAACAAGTCTCCTCCTTGGAACACCCAAG
 AAACCATGCAAAGCAGTGGACAACACAGAACACGCCCTCCTCCTCGCTGCCTGCAGCTCC
 AATCTGATTCTGCTTGGGAATGGGCGGAGCACGTGGGCTGCTTAACTGCTGTATAGGACA
 AGCCCCTACCCTCTCTGGGCCATGAATCCTGGCTTGGTTTATGTTCTGATTTGACA
 CACTGATTTTAACTTTCGAATCATGACACTGAGTGCAGAGGAGGTGGCATTCCGACAGCA
 GGACATACATGTTGGTGTGAAGACTGGGACGACACTGGGTAGAATCTAGTTTTTAAATTA
 TATTAATATAAAGGATCAAATTAATTTAAATATGATTCTGAAGTCTACAGAACTTTTAGT
 TCTGTGCTGTCTATGTGGACACTTTGGTAAAATGCAAATTATGATATGGACGTTATCATT
 GGTCTGGTGGAGATGTTTCATATTTGTGACAGTTAATTTAAAAATTATGACTTAATGCTGC
 CTGTGTCTATGGGTTCTGTCTTCTTTGATAGCCATCTATTATCTGGATCATGGGACCC
 TCTCTAATCCTTCCACCAATCAAATAAGCTATTGCTATTGGTTTGGAGTTGAGATATCAG
 TCTCGGAACTTCTGAAAAATGCTAATAATTACCCAAGGATTATGTCAAATTTTAAATA
 AATGTGTGTGTTTTCTTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003032

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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:	<p>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]</p> <p>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).</p>