

## Product datasheet for **SC127214**

### CDw75 (ST6GAL1) (NM\_173216) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDw75 (ST6GAL1) (NM_173216) 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:	>OriGene ORF within SC127214 sequence for NM_173216 edited (data generated by NextGen Sequencing)

```

ATGATTCACACCAACCTGAAGAAAAAGTTCAGCTGCTGCGTCCTGGTCTTTCTTCTGTTT
GCAGTCATCTGTGTGTGGAAGGAAAAGAAGAAAGGGAGTTACTATGATTCCTTTAAATTG
CAAACCAAGGAATTCCAGGTGTTAAAGAGTCTGGGAAATTGGCCATGGGGTCTGATTCC
CAGTCTGTATCCTCAAGCAGCACCCAGGACCCACAGGGGCCGACACCCCTCGGCAGT
CTCAGAGGCCTAGCCAAGGCCAAACCAGAGGCCTCCTCCAGGTGTGGAACAAGGACAGC
TCTTCCAAAAACCTTATCCCTAGGCTGCAAAAGATCTGGAAGAATTACCTAAGCATGAAC
AAGTACAAAGTGTCTACAAGGGGCCAGGACCAGGCATCAAGTTCAGTGCAGAGGCCCTG
CGCTGCCACCTCCGGGACCATGTGAATGTATCCATGGTAGAGTACAGATTTTCCCTTC
AATACCTCTGAATGGGAGGGTTATCTGCCAAGGAGAGCATTAGGACCAAGGCTGGGCT
TGGGGCAGGTGTGCTGTTGTGTGTCGTCAGCGGGATCTCTGAAGTCTCCCACTAGGCAGA
GAAATCGATGATCATGACGCAGTCTGAGGTTTAAATGGGGCACCCACAGCCAACCTCCAA
CAAGATGTGGGCACAAAACTACCATTGCGCTGATGAACTCTCAGTTGGTTACCACAGAG
AAGCGCTTCTCAAAGACAGTTTGTACAATGAAGGAATCCTAATTGTATGGGACCCATCT
GTATACCACTCAGATATCCCAAAGTGGTACCAGAATCCGGATTATAATTTCTTTAAAC
TACAAGACTTATCGTAAGCTGCACCCCAATCAGCCCTTTTACATCCTCAAGCCCCAGATG
CCTTGGGAGCTATGGGACATTCTTCAAGAAATCTCCCCAGAAGAGATTAGCCAAACCC
CCATCCTCTGGGATGCTTGGTATCATCATGATGACGCTGTGTGACCAGGTGGATATT
TATGAGTTCCTCCATCCAAGCGCAAGACTGACGTGTGCTACTACTACCAGAAGTTCTTC
GATAGTGCCTGCACGATGGGTGCCTACCCCGCTGCTCTATGAGAAGAATTTGGTGAAG
CATCTCAACCAGGGCACAGATGAGGACATCTACCTGCTTGGAAAAGCCACACTGCCTGGC
TTCCGGACCATTCACTGCTAA

```

Clone variation with respect to NM\_173216.2



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_173216 unedited  
 TAACCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGC  
 AGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCG  
 AATTTCGGCACGAGGACCGACCGCGTGGGCGGGAGCGGGCGGCCGCCACCGAGCGTGCT  
 GAGCAACCGCAGCCTCCGCGCCGAGAGTGCAGCGAGCAAGGGGAGAGCCAGTTGCGCAG  
 AGCCCTGCAACCAGCAGTCCAGGGAGAAGTGGTGAATGTCATGGAGCCCAGCTGAAATGG  
 ACTGGCCCTTGAGCCTGTCCCAAGCCCTGGTGCCAGGTGCCATCCCGTGTGAGAT  
 GAGTTTTGATCATCCTGAGAAAAATGGGCCTTGGCCTGCAGACCAATAAACCTTCCCTC  
 CCATGGATAATAGTGCTAATTCCTGAGGACCTGAAGGGCCTGCCGCCCTGNGGGATTAG  
 CCAGAAGCAGGCTTGTCTTCTGCTCAGAACAAGTGACTTCCCTGAACACATCTTCATT  
 ATGATTACACCAACCTGAAGAAAAAGTTCAGCTGCTGCGTCTGGTCTTTCTTCTGTTT  
 GCAGTCACTGTGTGGAAGGAAAAGAAGAAAGGGAGTACTATGATTCCTTTACATTG  
 CAAACCAAGGAATCCAGGTGTTAAAGAGTCTGGNGACATTGGCCATGGNGTCTGATTCC  
 CAGTCTGTATNCTCAAGCAGCACCCAGAACCCCAAGGGGCCGNCAGACCTTCGCAGT  
 CTCAGAGGCCTAGCCAAGCCAAACCAGAGGCCCTTCCAGGNTGTGGAACAGGNACAGC  
 TCTTCAAACCTTATCCTAGCTGCAAAGATACTGGAGAATACCTAGCATGACCAGTCCA  
 AGTGTCTACAAGGGCCAGACAGGCTCNAGTCAGTGCANAGCCCTGGCTGCACTCGACAAT  
 GN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_173216 unedited  
 CATCCAGTTGACCTATTGGNGATGGTCAACTCCCAGGNCCAGNAAAGCACTGGAGGAG  
 GGTACAGGGATGCCACCGGGTCTGTTCAGGAAAACAGCTATGACCGCGCCGCAATC  
 TAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGAAACACACACT  
 TTTATTTTAAATTTGACATAATCCTTGGTAATTATTAGCATTTTTCAAAGTTTCCGA  
 GACTGATATCTCAACTCAAACCAATAGCAATAGCTTATTTGATTGGTGGAGGATTAGA  
 GAGGGTCCCATGATCCAGATGAATAGATGGCTATCAAAGAAGACAGAACCCCATAGACAC  
 AGGCAGCATTAATCATAATTTTTAAATTAAGTGTACAAATATGAAACATCTCACCAGA  
 CCAATGATAACGTCCATATCATAATTTGCATTTTACCAAAGTGTCCACATAGACAGCACA  
 GAACTAAAAGTTCTGTAGACTTCAGAATCATATTTAAATTAATTTGATCCTTTATATTA  
 TAATAATTAATAACTAGATTCTACCCAGTGTGTCAGTCTTCCACACCAACATGTATGT  
 CCTGCTGTCGGAATGCCACCTCCTCTGCACTCAGTGTGTCATGATTGGAAGATTAATAATCAG  
 TGTGTCAAATCAGAACATAAACCAGCCAGGAATTCATGGGCCAGAGAGGGGTAAGGGG  
 CTTGTCTATACAGCAGTTAAGCAGCCACGTGCTTCGCCATTTTCCAAGCAAATCAN  
 ATTGGAGCTGCAGGCAGCGAGGAAGAAGCGTGTCTGTGTTGNCCACTGCTTTGCATGG  
 TTTCTTGGGTGTTCCAAGGAGACAGTTTGTGTCTCCAATAGACGTTAATTCCTGAGG  
 ACGGACC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_173216

**Insert Size:**

4700 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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\\_173216.1](#), [NP\\_775323.1](#)

**RefSeq Size:** 4403 bp

**RefSeq ORF:** 1221 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 (1) represents the longest transcript and encodes the longer isoform (a). Variants 1, 2 and 4 encode the same protein (isoform a).