

Product datasheet for **RG203776**

CDw75 (ST6GAL1) (NM_173216) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDw75 (ST6GAL1) (NM_173216) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDw75
Synonyms:	SIAT1; ST6Gall; ST6N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203776 representing NM_173216 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTACACCAACCTGAAGAAAAAGTTCAGCTGCTGCGTCCTGGTCTTTCTTCTGTTTGCAGTCATCT
GTGTGTGGAAGGAAAAGAAGAAAGGGAGTTACTATGATTCCTTTAAATTGCAAACCAAGGAATCCAGGT
GTTAAAGAGTCTGGGAAATTGGCCATGGGGTCTGATCCAGTCTGTATCCTCAAGCAGCACCCAGGAC
CCCCACAGGGGCCGACACCCCTCGGCAGTCTCAGAGGCCAGCCAAGGCCAAACAGAGGCCTCCTTCC
AGGTGTGGAACAAGGACAGCTCTCCAAAAACCTTATCCCTAGGCTGCAAAGATCTGGAAGAATTACCT
AAGCATGAACAAGTACAAGTGTCTACAAGGGGCCAGGACCAGGCATCAAGTTCAGTGCAGAGGCCCTG
CGCTGCCACCTCCGGGACCATGTGAATGTATCCATGGTAGAGGTCACAGATTTTCCCTTCAATACCTCTG
AATGGGAGGGTTATCTGCCAAGGAGAGCATTAGGACCAAGGCTGGGCTTGGGGCAGGTGTGCTGTTGT
GTCGTGAGCGGGATCTCTGAAGTCTCCCAACTAGGCAGAGAAAATCGATGATCATGACGCAGTCTGAGG
TTAATGGGGCACCCACAGCCAACCTCCAACAAGATGTGGGCACAAAACTACCATTGCGCTGATGAACT
CTCAGTTGGTTACCACAGAGAAGCGCTTCTCAAAGACAGTTTGTACAATGAAGGAATCCTAATTGTATG
GGACCCATCTGTATACCACTCAGATATCCCAAAGTGGTACCAGAATCCGGATTATAATTTCTTTAATAAC
TACAAGACTTATCGTAAGCTGCACCCCAATCAGCCCTTTACATCCTCAAGCCCCAGATGCCTTGGGAGC
TATGGGACATTCTCAAGAAATCTCCCCAGAAGAGATTAGCCAAACCCCATCCTCTGGGATGCTTGG
TATCATCATGATGACGCTGTGTGACCAGGTGGATATTTATGAGTTTCTCCATCCAAGCGCAAGACT
GACGTGTGCTACTACTACCAGAAGTTCTTCGATAGTGCCTGCACGATGGGTGCCTACCACCCGCTGCTCT
ATGAGAAGAATTTGGTGAAGCATCTCAACCAGGGCACAGATGAGGACATCTACCTGCTTGGAAAAGCCAC
ACTGCCTGGCTCCGGACCATTCACTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203776 representing NM_173216
 Red=Cloning site Green=Tags(s)

MIHTNLKKKFSCCVLVFLFAVICVWKEKKKGSYYDSFKLQTKFQVLKSLGKGLAMGSDSQSVSSSTQD
 PHRGRQTLGSLRGLAKAKPEASFQVWNKDSSSKNLI PRLQKIWKNYLSMNKYKVSYKGGPGIKFSAEAL
 RCHLRDHNVSVMVEVTDFFPNTSEWEGYLPKESIRTKAGPWGRCVAVSSAGSLKSSQLGREIDDHDAVLR
 FNGAPTANFQQDVGTKTTIRLMNSQLVTTEKRFKDSL YNEGIL I VWDP SVYHSDIPKWYQNPDYNFNN
 YKTYRKLHPNQPFYILKQMPWELWDILQEISPEEI QPNPPSSGMLGIIIMMTLCDQVDIYEF LPSKRKT
 DVCYYYQKFFDSACTMGAYHPLL YEKNL VKHLNQGTDEDIYLLGKATLPGFRTIHC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173216

ORF Size: 1218 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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](#)

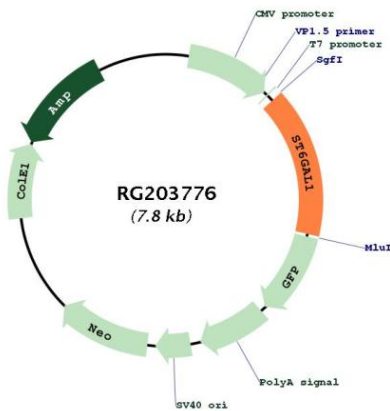
Cytogenetics: 3q27.3

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]

Product images:



Circular map for RG203776