

Product datasheet for **RG204764**

ST6GALNAC2 (NM_006456) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ST6GALNAC2
Synonyms:	SAITL1; SIAT7; SIAT7B; SIATL1; ST6GalNAII; STHM
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204764 representing NM_006456
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCTCCCGCGCGGGTCTGTTCTTCTGGCTGCTGCTCCTGCTCACGGCTGCCTGCTCGGGGCTCCTCT
TTGCCCTGTACTTCTCGCGGTGACGCGGTACCGGGGCCAGCGGCCGAGCCAGGGACACCACATCATT
TGAAGCATTCTTCAATCCAAGGCATCGAATCTTGGACAGAAAGGGCCAGGCCTGCCGACACCTGCTT
CACCTGGCCATTGACGGCACCCCACTTCCGTGGCTGTTCAATCTCTCCATTCCAGTGCTGCTGTGGG
GGGACCTTTCACCCAGCGCTCTGGGACCGCCTGAGCCAACACAAAGCCCCGTATGGCTGGCGGGGGCT
CTCTCACCAAGTCATCGCTCCACCCTGAGCCTTCTGAACGGCTCAGAGAGTGCCAAGCTGTTTGCCCCG
CCCAGGGACACCCCTCAAAGTGATCCGGTGTGCCGTGGTGGCAACGGAGGCATTCTGAATGGGTCCC
GCCAGGGTCCCAACATCGATGCCATGACTATGTATTGAGCTCAATGGAGCTGTGATCAAAGGCTTCGA
GCGCGATGTGGGCACCAAGACTTCCTTCTATGGTTTCACTGTGAACACGATGAAGAATCCCTCGTCTCC
TACTGGAATCTGGGCTTCACTCCGTGCCACAAGGACAGGACCTGCAGTATATCTTCATCCCTCAGACA
TCCGCGACTATGTGATGCTGAGATCGGCCATTCTGGGCGTGCCTGTCCCTGAGGGCTAGATAAAGGGGA
CAGGCCGACGCTATTTTGGACCAGAAGCCTCTGCCAGTAAATCAAGCTGCTACATCCGGAATTCATC
AGCTACCTGACAGAAAGTTCTTGAAATCAAAGTTGATTAACACACATTTTGGAGACCTATATATGCTTA
GTACCGGGGCTCTCATGCTGCTGACAGCTTGCATACCTGTGACCAGGTGAGTCCATGGAATTCATCAC
AAGCACTACTGGAATTTTCCGACCACTATTTGAAACGAAAAATGAAGCCATTGATATTTATGCAAAAC
CACGATCTGCTCCGGAAGCTGCCCTGTGGAGGACCTGCACAAGGCCGCATCCTTCAGCTGTACCAGC
GC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG204764 representing NM_006456
Red=Cloning site Green=Tags(s)

MGLPRGSFFWLLLLTAACSGLLFALYFSAVQRYPGPAAGARDTTSFEAFFQSKASNSWTGKGQACRHL
HLAIQRHPFRGLFNLSPVLLWGLDFTPALWRLSQHKAPYGWRGLSHQVIASTLSLLNGSESAKLFAP
PRDTPPKCIRCAVVGNGGILNGSRQGNIDAHDYVFRNLNGAVIKGFERDVGTSTFYGFTVNTMKNLSVS
YWNLGFTSVPGQDLQYIFIPSDIRDYVMLRSAILGVPVPEGLDKGDRPHAYFGPEASASKFKLLHPDFI
SYLTERFLKSKLINTHFGDLYMPSTGALMLLTALHTCDQVSAYGFITSNYWKFSDHYFERKMKPLIFYAN
HDLSEAAALWRDLHKAGILQLYQR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006456

ORF Size: 1122 bp

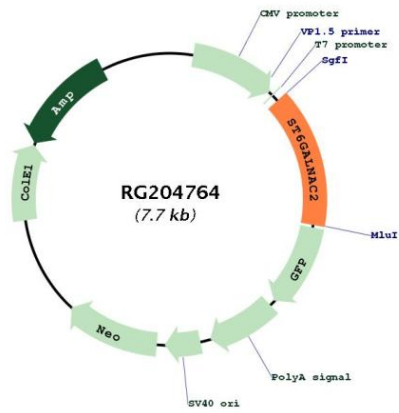
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_006456.3</u>
RefSeq Size:	1908 bp
RefSeq ORF:	1125 bp
Locus ID:	10610
UniProt ID:	<u>Q9UJ37</u>
Cytogenetics:	17q25.1
Domains:	Glyco_transf_29
Protein Families:	Transmembrane
Gene Summary:	ST6GALNAC2 belongs to a family of sialyltransferases that add sialic acids to the nonreducing ends of glycoconjugates. At the cell surface, these modifications have roles in cell-cell and cell-substrate interactions, bacterial adhesion, and protein targeting (Samyn-Petit et al., 2000 [PubMed 10742600]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG204764