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Product datasheet for RG207761

ST3GAL2 (NM_006927) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST3GAL2 (NM_006927) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ST3GAL2
Synonyms:	Gal-NAc6S; SIAT4B; ST3GalA.2; ST3GALII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG207761 representing NM_006927
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGTGCTCCCTGCGGGTGTGGTTCCTCTCCGTGGCCTTCCTGCTGGTGTTCATCATGTCCCTGCTCT
TCACCTACTCGCACCACAGCATGGCCACGCTCCCCTACCTGGACTCAGGGGCCCTGGATGGGACGCACCG
GGTGAAGCTGGTGCCCGGCTATGCCGGCCTGCAGCGCCTCAGCAAGGAGAGGCTCTCGGGCAAGAGCTGT
GCCTGTCGCCGCTGCATGGGCGATGCCGGTGCCTCCGACTGGTTTGACAGCCACTTTGACGGTAACATTT
CCCCCGTCTGGACCCGAGAGAACATGGATCTTCCACCGGACGTCCAGAGGTGGTGGATGATGCTGCAGCC
CCAGTTCAAGTCACACAACACCAATGAGGTGCTGGAGAAGCTGTTCCAGATAGTGCCTGGCGAGAACCCC
TACCGCTTCCGGGACCCCCACCAGTGCCGGCGCTGTGCCGTGGTGGGGAACTCGGGCAACCTGCGGGGCT
CTGGCTATGGGCAGGACGTGGACGGGCACAACTTCATCATGAGGATGAATCAGGCGCCAACCGTGGGCTT
TGAGCAGGATGTTGGCAGCCGAACCACCCACCATTTCATGTACCCTGAGAGTGCCAAGAACCTGCCCGCC
AACGTCAGCTTCGTGCTGGTGCCCTTCAAGGTCCTGGACCTTCTGTGGATCGCCAGCGCCTTGTCCACGG
GGCAGATCCGATTCACCTACGCCCCAGTGAAGTCCTTCCTTCGAGTGGATAAAGAAAAGGTCCAGATCTA
CAACCCAGCCTTCTTCAAGTATATCCACGACAGGTGGACAGAGCATCACGGGCGGTACCCTTCCACGGGG
ATGCTGGTGCTTTTCTTTGCCCTGCATGTGTGTGATGAGGTGAACGTGTACGGGTTCGGGGCCGACAGCC
GGGGCAACTGGCACCACTACTGGGAGAACAACCGGTACGCGGGCGAGTTCCGGAAGACTGGCGTGCACGA
CGCGGACTTCGAGGCCCACATCATCGACATGCTGGCCAAGGCCAGCAAGATCGAAGTCTACCGGGGCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

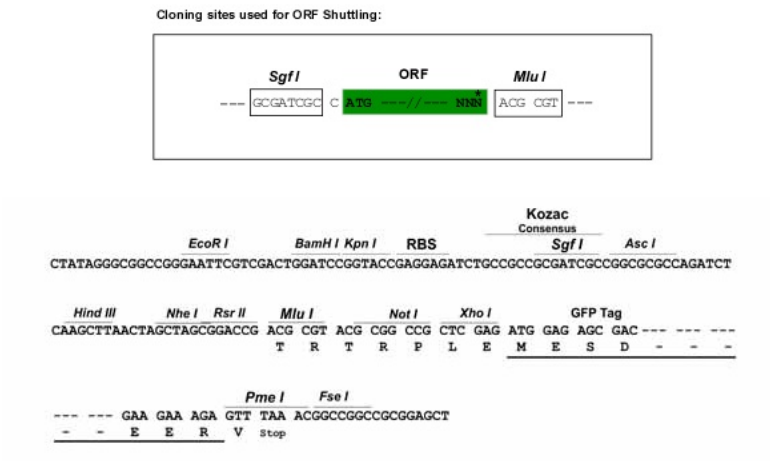
>RG207761 representing NM_006927
Red=Cloning site Green=Tags(s)

MKCSLRVWFLSVAFLLVFIMSLLFTYSHHSMATLPYLDSGALDGTHRVKLVPGYAGLQRLSKERLSGKSC
ACRRCMGDAGASDWFDSHFDGNISPVWTRENMDLPPDVQRWWMMLQPQFKSHNTNEVLEKLFQIVPGENP
YRFRDPHQCRRCAVVGNSGNLRGSGYGQDVDGHNFIMRMNQAPTVGFEQDVGSRTTHHFMYPESAKNLPA
NVSFVLVPFKVLDLLWIASALSTGQIRFTYAPVKSFLRVDKEKVQIYNPAFFKYIHDRWTEHHGRYPSTG
MLVLFFALHVCDEVNVYGFGADSRGNWHHYWENNRYAGEFRKTGVHDADFEAHIIDMLAKASKIEVYRGN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006927

ORF Size: 1050 bp

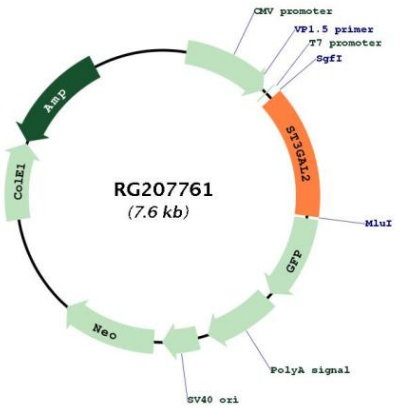
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_006927.4
RefSeq Size:	2479 bp
RefSeq ORF:	1053 bp
Locus ID:	6483
UniProt ID:	Q16842
Cytogenetics:	16q22.1
Domains:	Glyco_transf_29
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - ganglio series, Glycosphingolipid biosynthesis - globo series, Keratan sulfate biosynthesis, Metabolic pathways, O-Glycan biosynthesis
Gene Summary:	The protein encoded by this gene is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The encoded protein is normally found in the Golgi but can be proteolytically processed to a soluble form. This protein, which is a member of glycosyltransferase family 29, can use the same acceptor substrates as does sialyltransferase 4A. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207761