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Product datasheet for RC228142

ST6GALNAC3 (NM_001160011) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST6GALNAC3 (NM_001160011) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ST6GALNAC3
Synonyms:	PRO7177; SIAT7C; ST6GALNACIII; STY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC228142 representing NM_001160011
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTGCATCCTGAAGAGAAAGTCTGTGATTGCTGTGAGCTTCATAGCAGCGTTCCTTTTCCTGCTGG
TTGTGCGTCTTGTAAATGAAGTGAATTTCCCATTGCTACTAAACTGCTTTGGACAACCTGGTACAAAGTG
GATACCATTCTCCTACACATACAGGCGGCCCCTTCGAACTCACTATGGATACATAAATGTGAAGACACAA
GAGCCTTTGCAACTGGACTGTGACCTTTGTGCCATAGTGTCAAACTCAGGTCAGATGGTTGGCCAGAAGG
TGGGAAATGAGATAGATCGATCCTCCTGCATTTGGAGAATGAACAATGCCCCCACCAAAGGTTATGAAGA
AGATGTCGGCCGCATGACCATGATTCGAGTTGTGTCCCATACCAGCGTTCCTCTTTTGCTAAAAAACCCT
GATTATTTTTTCAAGGAAGCGAATACTACTATTTATGTTATTTGGGGACCTTTCCGCAATATGAGGAAAG
ATGGCAATGGCATCGTTTACAACATGTTGAAAAAGACAGTTGGTATCTATCCGAATGCCCAAATATACGT
GACCACAGAGAAGCGCATGAGTTACTGTGATGGAGTTTTTAAGAAGGAAACTGGGAAGGACAGTACAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228142 representing NM_001160011
Red=Cloning site Green=Tags(s)

MACILKRKSVIAVSFIAAFLFLLVVRLVNEVNFPLLLNCFGQPGTKWIPFSYTYRRPLRTHYGYINVKTQ
EPLQLDCDLCAIVSNSGQMVGQKVGNEIDRSSCIWRMNNAPTKGYEEDVGRMTMIRVVSHTSVPLLLKNP
DYFFKEANTTIYVIWGPFRNMRKDGNGIVYNMLKKTVGIYPNAQIYVTTEKRMSYCDGVFKKETGKDSTE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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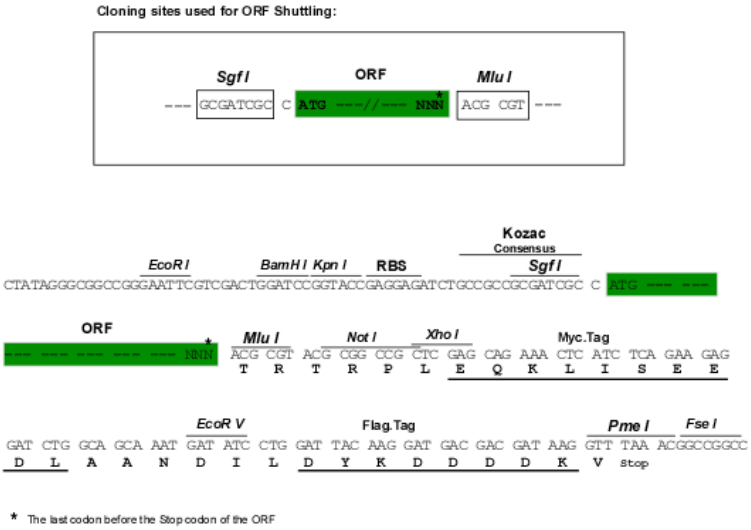
Chromatograms: https://cdn.origene.com/chromatograms/ja1458_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001160011

ORF Size: 630 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_001160011.3

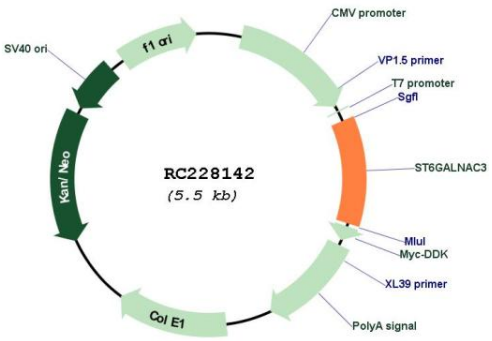
RefSeq ORF: 633 bp

Locus ID: 256435

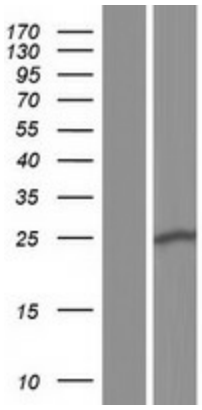
UniProt ID: Q8NDV1

Cytogenetics:	1p31.1
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - ganglio series, Metabolic pathways
MW:	23.8 kDa
Gene Summary:	ST6GALNAC3 belongs to a family of sialyltransferases that transfer sialic acids from CMP-sialic acid to terminal positions of carbohydrate groups in glycoproteins and glycolipids (Lee et al., 1999 [PubMed 10207017]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC228142



Western blot validation of overexpression lysate (Cat# [LY431170]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228142 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).