

Product datasheet for MR222666

St3gal5 (NM_001035228) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: St3gal5 (NM_001035228) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: St3gal5
Synonyms: 3S-T; Siat9; [a]2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR222666 representing NM_001035228
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCACACAGAGGCGGTGGGCGGCGGGCGGAGGCCCCAGAAGCTGCGAAGCCAAGCAGCGGCACCTG
 CCTGCCGAGCAATGCCAAGTGAGTTCACCTCTGCAAAGCTGAGAAGTGATTGCTCAAGGACCTCCCTGCA
 ATGGTACACCCGAACCCAGCACAAAGATGAGAAGACCCAGCTTGTAATAAAAAGACATCTGCAAGTGACG
 TTGGTTGCATTTGGAGTCTGGCTCCTGTACATCCTCATTTGAATTACACCGCTGAAGAATGTGACATGA
 AAAGAATGCACTATGTGGACCCTGACCGGATAAAGAGAGCTCAGAGCTATGCTCAGGAAGTCTTGACAGAA
 GGAATGTCGGCCAGGTACGCGAAGACGGCTATGGCTCTGTTATTTGAGGACAGGTACAGCATCAACTTG
 GAGCCTTTTGTGCAAGAAGTCCCCACGGCCAGTGAAGCTGAGCTCAAGTATGACCCGCTTTTGGATTCC
 GGAAGTTCTCCAGTAAAGTCCAGAGCCTCTTGGATATGCTGCCCGAACATGACTTTCCTGAACACTTGAG
 AGCCAAGGCTGCAAGCGCTGTGTGGTGTGGGAACGGGGCATCTGCACGGACTAGAGCTGGGTAC
 GCCCTCAACCAAGTTCGATGTGGTAATAAGGTGAACAGTGCGCCAGTTGAGGGTTACTCTGAACACGTTG
 GGAATAAACTACTATAAGGATGACTTACCCAGAGGGTGCGCCACTGTCCGACGTTGAATACTACGCCAA
 TGATTTGTTCTGTTACTGTTTTATTAAGAGTGTGATTTCAAGTGGCTTCAAGCAATGGTAAAAAATGAA
 AGCCTGCCCTTTGGGTTTCGCTCTTTTGGAAAGCAAGTGGCAGAAAAAGTCCCACTCCAGCCAAAGC
 ACTTCAGGATTTGAACCCAGTTATCATCAAAGAACTGCCTTCGACATCCTTCAGTACTCAGAGCCTCA
 GTCAAGATTCTGGGGCCATGATAAGAACATCCCCACGATCGGCGTCATTGCCGTTGTCTTGCTACACAT
 CTGTGTGATGAAGTCAGCCTGGCAGGCTTTGGCTACGACCTCAGTCAACCCAGGACCCCTCTGCACTACT
 TTGACAGTCAGTGCATGGGCGCCATGCACTGGCAGGTCATGCACAATGTGACCACAGAGACCAAGTTCCT
 CCTGAAGCTCCTCAAGGAGGGCGTGGTGGAGGACCTCAGCGGCGGCATCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222666 representing NM_001035228
Red=Cloning site Green=Tags(s)

MHTEAVGGAARRPQKLRSQAAAPACRAMPSEFTSAKLRSDCSRTSLQWYTRTQHKMRRPSLLIKDICKCT
 L VAFGVWLLYILILNYTAEECDMKRMHYVDPDRIKRAQSYAQEVLQKECRPRYAKTAMALLFEDRYSINL
 EPFVQKVPTASEAELKYDPPFGFRKFSSKVQSLDMLPEHDFPEHLRAKACKRCVVVGGGILHGLELGH
 ALNQFDVVIRLNSAPVEGYSEHVGNKTTIRMTYPEGAPLSDVEYYANDLFVTVLFKSVDFKWLQAMVKNE
 SLPFVWRLFFWKQVAEKVPLQPKHFRILNPVVIKETAFDILQYSEPQSRFWGHDKNIPTIGVIAVVLATH
 LCDEVSLAGFGYDLSQPRTPLHYFDSQCMGAMHWQVMHNVTTETKFLKLLKEGVVEDLSGGIH

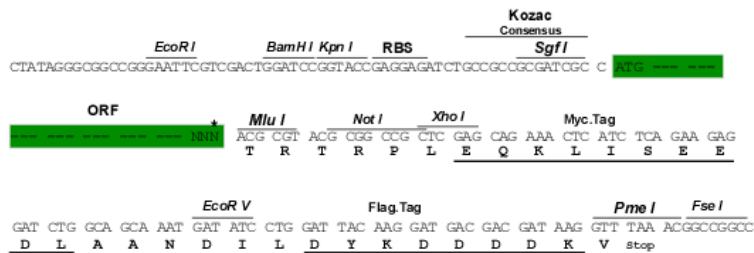
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9018_d02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001035228

ORF Size: 1242 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_001035228.2](#)

RefSeq Size: 2236 bp

RefSeq ORF: 1245 bp

Locus ID: 20454

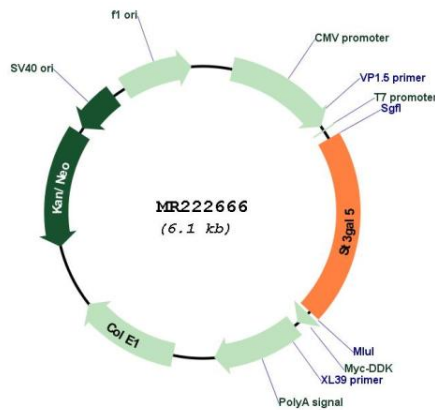
UniProt ID: [O88829](#)

Cytogenetics: 6 C1

MW: 47.8 kDa

Gene Summary: Catalyzes the formation of ganglioside GM3 (alpha-N-acetylneuraminy-2,3-beta-D-galactosyl-1, 4-beta-D-glucosylceramide), which is a precursor for most of the complex ganglioside species.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222666