

Product datasheet for RC220902

GAL3ST2 (NM_022134) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAL3ST2 (NM_022134) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GAL3ST2
Synonyms:	GAL3ST-2; GP3ST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220902 representing NM_022134 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGTCCATGCTGGGCGGCTTGCAGAGATACTCCGGGTCATCCTCCTCCTCCTGGCCCTGACTC
TGCTCCTGCTGGCCGGATTCTGCACTCGGACTTAGAGCTGGACACACCCTGTTGGGGCCAGGCTGA
GGGGCCCGCGGTACCAACATCATGTTCTGAAGACGCACAAGACGGCCAGCAGCAGGTGCTCAACATC
CTCTACCGCTTCGCCGAGACCCACAACCTGTCCGTGGCGCTGCCCGCGGCTCACGCGTCCACCTGGGT
ACCCCTGGCTCTCCTGGCGCTACGTGGAAGCGTGGGGTTCGAGCAGCGCTTCAACATCATGTCAA
CCACCTGAGGTTCAACCTGCCTCAGGTGCAGAAAGTCATGCCAACGACACCTTCTACTTCCATCCTG
AGGAACCCCGTGTTCAGCTGGAGTCTCCTTCACTACTACAAAACCTACGCCCCCGCCTTCCGGGGCG
CCCCGAGCCTGGACGCGTTCCTGGCCTCGCCGCGGACGTTCTACAACGACAGCCGCCACCTCAGGAACGT
CTACGCCAAGAACAACATGTGGTTCGACTTCGGCTTCGACCCCAACGCGCAGTGCAGGAGGGCTACGTG
CGCGCGCATCGCCGAGGTGGAGCGGCGCTTCGGCTGGTGTCTCATCGCCGACACCTGGACGAGTCCC
TGGTGTGCTGCGGCGCCGGCTGCGCTGGGCGCTGGACGACGTGGTGGCCTTCAGGCTCACTCCCGCAG
CGCGCGCTCCGTGGCCCGCTGTGCGCCGAGACCCGGAGCGCGCGGAGCTGGTGCAGCTGGGCGGCTGG
CGCCTGTACGAGCATTTCAACCGCACCTCTGGGCGCAGCTGCGCGCCGAGCTGGGCGCGGCGGCTGC
CGGGGAGGTGGAGCGGCTGCGCGCCCGAGGCGCAACTCGCGAGCCTGTGCCTGCAGGACGGCGGCGC
GCTCAAGAACCACACGCAGATCAGAGACCCGCGCTGCGCCCTACAGTCCGGCAAGGCCGACATCCTG
GGTTACAACCTCCGGCCGGGCTGGACAACGACGCTGGGCGTGTGCCAGAGGCTTGTGATGCCTGAGC
TCCAGTACATGGCCCGCTGTACGCCCTGCAGTTCGGGAGAAGCCCTCAAGAACATCCCGTTCCTGGG
GGCG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC220902 representing NM_022134
Red=Cloning site Green=Tags(s)

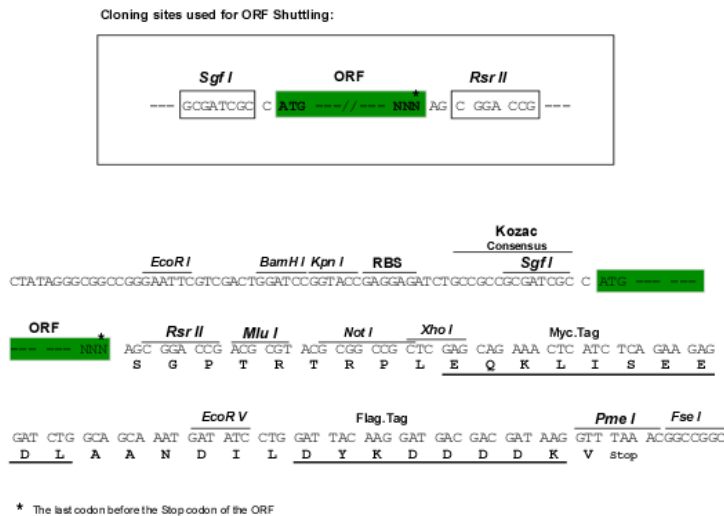
MMSMLGGLQRYFRVILLLLLALLLLLAGFLHSDLELDTPLFGGQAEPPVTNIMFLKTHKTASSTVLNI
 LYRFAETHNLSVALPAGSRVHLGYPWFLARYVEGVGSQQRFNIMCNHLRFNLPQVQKMPNDTFYFSIL
 RNPVFQLESSFIYYKTYAPAFRGAPSLDAFLASPRTFYNDSRHLRNVYAKNNMWFDFGDPNAQCEEGYV
 RARIAEVERRFRVLVIAEHLDESLVLLRRRLRWALDDVAVFRLNSRSARSVARLSPETREARSWCALDW
 RLYEHFNRTLWAQLRAELGPRRLRGEVERLRARRRELASLCLQDGGALKNHTQIRDPRLRPYQSGKADIL
 GYNLRPGLDNQTLGVCQRLVMPELQYMARLYALQFPEKPLKNIPLGLA

SGPTRTRRLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8010_g02.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_022134

ORF Size: 1194 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_022134.3](#)

RefSeq Size: 1584 bp

RefSeq ORF: 1197 bp

Locus ID: 64090

UniProt ID: [Q9H3Q3](#)

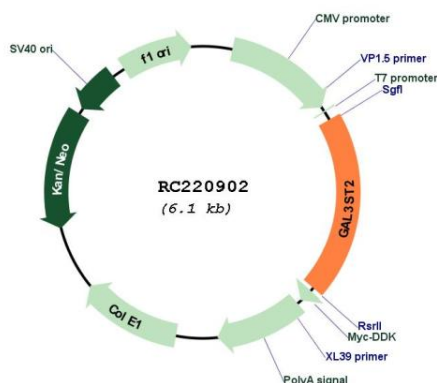
Cytogenetics: 2q37.3

Protein Families: Transmembrane

MW: 45.9 kDa

Gene Summary: This gene encodes a member of the galactose-3-O-sulfotransferase protein family. The product of this gene catalyzes sulfonation by transferring a sulfate group to the hydroxyl at C-3 of nonreducing beta-galactosyl residues, and it can act on both type 1 and type 2 (Galbeta 1-3/1-4GlcNAc-R) oligosaccharides with similar efficiencies, and on core 1 glycans. This enzyme has been implicated in tumor metastasis processes. This gene is different from the GAL3ST3 gene located on chromosome 11, which has also been referred to as GAL3ST2 and encodes a related enzyme with distinct tissue distribution and substrate specificities, compared to galactose-3-O-sulfotransferase 2. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC220902