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Product datasheet for SC305001

GAL3ST2 (NM_022134) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	GAL3ST2
Synonyms:	GAL3ST-2; GP3ST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC305001 representing NM_022134.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATGTCCATGCTGGGCGGCTTGCAGAGATACTTCCGGGTCATCCTCCTCCTCCTCCTGGCCCTGACT
CTGCTCCTGCTGGCCGGATTCCTGCACTCGGACTTAGAGCTGGACACACCCCTGTTTGGGGGCCAGGCT
GAGGGGCCGCCGGTCACCAACATCATGTTCCTGAAGACGCACAAGACGGCCAGCAGCACGGTGCTCAAC
ATCCTCTACCGCTTCGCCGAGACCCACAACCTGTCCGTGGCGCTGCCCGCCGGCTCACGCGTCCACCTG
GGCTACCCCTGGCTCTTCCTGGCGCGCTACGTGGAAGGCGTGGGGTCGCAGCAGCGCTTCAACATCATG
TGCAACCACCTGAGGTTCAACCTGCCTCAGGTGCAGAAAGTCATGCCCAACGACACCTTCTACTTCTCC
ATCCTGAGGAACCCCGTGTTCCAGCTGGAGTCCTCCTTCATCTACTACAAAACCTACGCCCCCGCCTTC
CGGGGCGCCCCGAGCCTGGACGCGTTCCTGGCCTCGCCGCGGACGTTCTACAACGACAGCCGCCACCTC
AGGAACGTCTACGCCAAGAACAACATGTGGTTCGACTTCGGCTTCGACCCCAACGCGCAGTGCGAGGAG
GGCTACGTGCGCGCGCGCATCGCCGAGGTGGAGCGGCGCTTCCGGCTGGTGCTCATCGCCGAGCACCTG
GACGAGTCCCTGGTGCTGCTGCGGCGCCGGCTGCGCTGGGCGCTGGACGACGTGGTGGCCTTCAGGCTC
AACTCCCGCAGCGCGCGCTCCGTGGCCCGCCTGTCGCCCGAGACCCGGGAGCGCGCGCGGAGCTGGTGC
GCGCTGGACTGGCGCCTGTACGAGCATTTCAACCGCACCCTCTGGGCGCAGCTGCGCGCCGAGCTGGGG
CCGCGGCGGCTGCGCGGGGAGGTGGAGCGGCTGCGCGCCCGGAGGCGCGAACTCGCGAGCCTGTGCCTG
CAGGACGGCGGCGCGCTCAAGAACCACACGCAGATCAGAGACCCGCGCCTGCGCCCCTACCAGTCCGGC
AAGGCCGACATCCTGGGTTACAACCTCCGGCCGGGCCTGGACAACCAGACGCTGGGCGTGTGCCAGAGG
CTTGTGATGCCTGAGCTCCAGTACATGGCCCGCCTGTACGCCCTGCAGTTCCCGGAGAAGCCCCTCAAG
AACATCCCGTTCCTGGGGGCGTAG
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

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ACCN:	NM_022134
Insert Size:	1197 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_022134.2
RefSeq Size:	1449 bp
RefSeq ORF:	1197 bp
Locus ID:	64090
UniProt ID:	Q9H3Q3
Cytogenetics:	2q37.3
Protein Families:	Transmembrane
MW:	46.1 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]