

Product datasheet for **RG203401**

GAL3ST4 (NM_024637) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	GAL3ST4
Synonyms:	GAL3ST-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG203401 representing NM_024637
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGCCCTCTCTCTCTGCCAGGACGCTGCGGCTCTGGGACCTCGGAGCCTGGGGTGGCTCTGGGAG
 TCTTCATGACCATTGGCTTTGCACTCCAGCTCTTGGGAGGGCCCTTCCAGAGGAGGCTACCTGGGTACA
 GCTCCGACAGCCCTCGGCCCATCCCTACGACAGCCCTTCCGTCTGCCACCCCGGACGAGCTGGT
 TTCTGAAGACACATAAATCCGGGAGCAGCTCTGTGCTGAGCCTGCTTACCCTATGGGGACCAGCAGC
 GGCTGCGCTTCGCCCTCCCTGCCGCTACCACTTTGGCTACCAAGCTCTTCCAGGCCTCTAGGGTAAA
 AGGCTACCGCCCAAGGGTGGAGGCACCCAGCTCCCTTCCACATCTCTGTCAACCATGAGGTTCAAC
 CTGAAAGAGGTAATTCAGGTATGCCTTCTGACAGCTCTTTTTTTCCATTGTCCGAGACCCAGCGGCTC
 TGGCTCGCTCTGCCTTCTCTACTATAAATCCACCTCATCAGCTTCCGCAAGTCACCATCTTTGGCTGC
 CTTCTGGCCAATCTCGAGGCTTCTACAGGCTGGGGCCGTGGGACCACTACGCTCGCAACTTACTA
 TGGTTTGACTTTGGCCTGCCCTTCCCCCAGAGAAGAGGGCCAAGAGAGGGAATATTATCCCCCAGAG
 ACCCCAACCCCCACAGCTGCAGGTCTTGCCTTCTGGTGTGGCCCTCGAGCCCAAACCTCAATCCCAA
 TGCCCTCATCCATCCTGTTTCCACTGTTACTGATCATCGCAGCCAGATATCAAGCCCTGCCTCTTTCGAT
 TTGGGGTCTTCATCCTTCATCAGTGGGTCTGGCCTGGCTGGACTCTGTCTTTGACCTGGTCATGGTGG
 CTGAGTACTTCGATGAGTCATTGGTTCTGCTGGCAGATGCCCTGTGCTGGGGTCTAGATGACGTGGTGGG
 CTTTCATGCACAATGCCAGGCTGGACATAAGCAGGGCCTCAGCACTGTCAAGCAAGTGGACTGACTGCG
 GAGGACCGGCAGCTGACTGCACGGGCCGAGCCTGGAACAACCTGGACTGGGCTCTCTATGTCCACTTCA
 ACCGCAGTCTCTGGGCAGGATAGAGAAATACGGCCAGGGCCGGCTGCAGACAGCTGTGGCCGAGCTCCG
 GGCTCGCCGAGAGGCCCTAGCGAAACATTGTCTGGTAGGGGTGAGGCTTCTGACCCCAAATACATCACT
 GATCGCCGGTTCGCCCTTCCAGTTTGGGTGAGCTAAGGTTTGGGCTATATACTTCGGAGTGGATTGA
 GCCCCAAGACCAAGAGGAATGTGAGCGCCTAGCTACCCCTGAGCTCCAGTACAAGGACAAGCTGGATGT
 CAAGCAGTTCGCCCTACCGTCTCACTGCCCTCAAGACTTCAAGGCCACTCTCCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203401 representing NM_024637
 Red=Cloning site Green=Tags(s)

MGPLSPARTLRLWGPRSLGVALGVFMTIGFALQLLGGPFQRRPLGLQLRQPSAPSLRPALPSCPPRQRLV
 FLKTHKSGSSSVLSLLHRYGDQHLRFALPARYQFGYPKLFQASRVKGYRPQGGGTQLPFHILCHHMRFN
 LKEVLQVMPDSFFFSIVRDPALARSFYYKSTSSAFRKSPSLAAFLANPRGFYRPGARGDHYARNLL
 WFDGFLPFPEKRAKRGNIHPPRPNPPQLQVLPAGPRAQTLNPNALIHPVSTVTDHRSQISSPASFD
 LGSSSFIQWGLAWLDSVFDLVMVAEYFDESLVLLADALCWGLDDVVGFMHNAQAGHKQGLSTVSNSGLTA
 EDRLTARARAWNLDWALYVHFNRSLWARIEKYQGRLQTAVAEELRARREALAKHCLVGGEASDPKYIT
 DRRFRPFQFGSAKVLGYILRSLSPQDQEECERLATPELQYKDKLDVKQFPPTVSLPLKTSRPLSP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024637

ORF Size: 1458 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024637.2](#)

RefSeq Size: 2561 bp

RefSeq ORF: 1461 bp

Locus ID: 79690

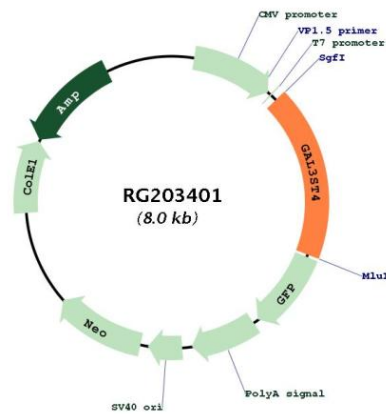
UniProt ID: [Q96RP7](#)

Cytogenetics: 7q22.1

Protein Families: Transmembrane

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 to the C-3' position of galactose residues in O-linked glycoproteins. This enzyme is highly specific for core 1 structures, with asialofetuin, Gal-beta-1,3-GalNAc and Gal-beta-1,3 (GlcNAc-beta-1,6)GalNAc being good substrates. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG203401