

Product datasheet for **RG220465**

GXYLT1 (NM_173601) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GXYLT1 (NM_173601) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GXYLT1
Synonyms:	GLT8D3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220465 representing NM_173601 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCGCTACCTGCGCGTCGTGGTGCTGTGTGGCCTGCGGCTTCTGCTCGCTCCTTTACGCTTTCA
GCCAGCTCGCGTGTCCCTGGAAGAAGGAACGGGCGGCGGTGGCGGAAGCCGAGGCCGCGTGGCTTC
CTGGCTCGCGGCGGCGGACGCGCGCCGTGAGAGGCGCGGCGTGGCGGCCCCGAGCGCATCCCGGC
GTGTCGGACAGGTGTAAGATTTCTCTGTGTTACTGGAATCCCTATTGGATGCTGCCCTCTGATGTTT
GTGGAATGAAGTCTTTTGGGAAGCGGCTTTAGGTACAGTCTGAAAATACAGCCTGTTGAGAAAATGCA
TCTAGCTGTAGTTGCCTGTGGTGAAGACTGGAAGAACTATGACCATGTTGAAGTCAGCTATCATTTTC
AGCATCAAACCTCTTCAATTCATATTTTGTGAAGATCAGCTACATCATAGCTTTAAAGGCAGACTTG
ACAAGTGGTCATTTCTACAAACATTTAATTATACGTTATACCCATAACCTTTCCAAGTGAGAATGCAGC
AGAGTGGAAGAACTCTTTAAACCATGTCTTCGAGAGATTGTTCTTGCCGTTAATCCTGAAAGAGTT
GACTCACTATTGTATGTCGACACTGATATCCTTTTTTACGACCACTGATGATATTTGGTCTTTACTAA
AGAAATTTAATTCACACAAATTGCTGCAATGGCACCAGAACATGAGGAACCTCGAATAGGATGGTATAA
TCGCTTTGCTAGGCATCCATATTATGAAAACTGGAGTAACTCTGGAGTTATGTTGATGAACATGACT
CGAATGAGAAGGAAGTATTTCAAGAATGATATGCAACTGTACGACTACAATGGGAGATATACTTATGC
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TAATCCAGAAAGCCTTTTTGTTTTCCGTGTCAATGGAATTATCGACCACTGATTTGTATATATGGAAGC
AATTGCCAAGAAGCAGAAGAAGGAGGAATCTTTATTCTTCATGGGAACAGAGGTGTTTACCATGACGATA
AGCAACCAGCATTTAGAGCTGTTTATGAAGCACTGAGAAATTGTTCTTTTGAAGATGACAACATCCGTTT
CTTATTAACCTTTAGAACTGGAACACAAAAACAGTGCATACATACTGTGAAAAATTTACAAAATA
TTTATCAAACTAGCAAAAGTGAAGAGATCGTTATGCCAGATCACCAAGGAAAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220465 representing NM_173601
 Red=Cloning site Green=Tags(s)

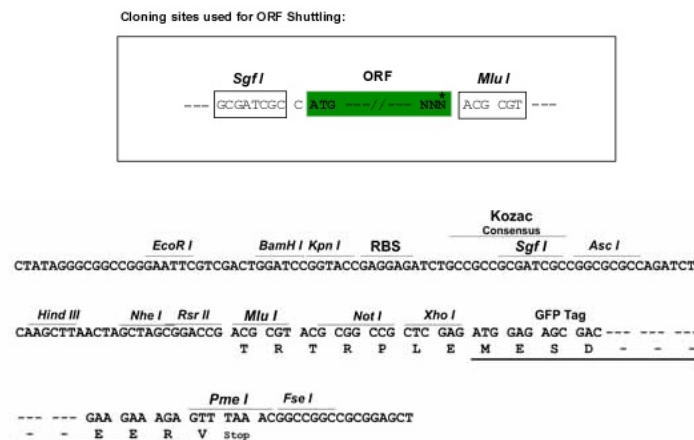
MRRYL RVVVL CVACGFCSLL YAFSQLAVSLEEGTGGGGGKPQA AVASWLAGGGRGAVRGAGVAGPAAHPG
 VSDRCKDFSLCYWNPYWMLPSDVCGMNCFWEAAFRYSLKIQPVEKMH LAVVACGERLEETMTMLKSAIIF
 SIKPLQFHIFAEQDLHHSFKGRLDNWSFLQTFNYTL YPITFPSENAAEWKLFKPCASQRLFLPLILKEV
 DSSL YVDTDILFLRPVDDIWSLLKKFNSTQIAAMAPEHEEPRIGWYNRFARHPYYGKTGVNSGVMLMNM
 TMRRKYFKNDMTTVRLQWGDILMPLLKKYKLNITWGDQDLLNIVFFHNPESLFVFPQWNYRDPDHCYGS
 NCQEAEEGGIFILHGNRGVYHDDKQPAFRAVYEALRNC SFEDDNIRSLKPLELELQKTVHTYCGKIYKI
 FIKQLAKSVDRDYARSPKEK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_173601

ORF Size: 1320 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_173601.2](#)

RefSeq Size: 7509 bp

RefSeq ORF: 1323 bp

Locus ID: 283464

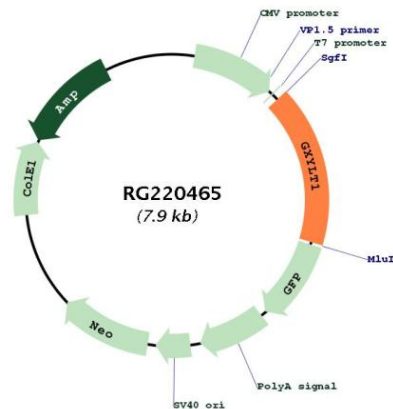
UniProt ID: [Q4G148](#)

Cytogenetics: 12q12

Protein Families: Transmembrane

Gene Summary: GXYLT1 is a xylosyltransferase (EC 2.4.2.-) that adds the first xylose to O-glucose-modified residues in the epidermal growth factor (EGF; MIM 131530) repeats of proteins such as NOTCH1 (MIM 190198) (Sethi et al., 2010 [PubMed 19940119]).[supplied by OMIM, Mar 2010]

Product images:



Circular map for RG220465