

Product datasheet for RC220465

GXYLT1 (NM_173601) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GXYLT1 (NM_173601) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GXYLT1
Synonyms:	GLT8D3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220465 representing NM_173601. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTGAACCGTCAGAAATTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTGCTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
 ATGCGGCGCTACCTGCGCGTCTGGTGTGTGTGGCCTGCGGCTTCTGCTCGCTCCTTTACGCTTTT
 AGCCAGCTCGCGTGTCCCTGGAAGAAGGAACGGCGCGGTGGCGGAAGCCGAGGCCGCGTGGCT
 TCCTGGCTCGCGGCGCGGACGCGCGCGTGAAGGCGCGCGTTCGCGGGCCCCGACGCGATCCC
 GGCGTGTGGACAGGTGTAAGATTTCTCTGTGTTACTGGAATCCCTATTGGATGCTGCCCTCTGAT
 GTTTGTGAATGAACTGCTTTTGGGAAGCGCTTTTAGGTACAGTCTGAAATACAGCCTGTTGAGAAA
 ATGCATCTAGCTGTAGTTGCCTGTGGTGAAGACTGGAAGAACTATGACCATGTTGAAGTCAGCTATC
 ATTTTCAGCATCAAACCTCTTCAATTCATATTTTGTGAAGATCAGCTACATCATAGCTTTAAAGGC
 AGACTTGACAACTGGTCAATTTCTACAAACATTTAATTATACGTTATACCCATAACCTTTCCAAGTGAG
 AATGCAGCAGAGTGGAAGAACTCTTTAAACCATGTGCTTCGACAGAGATTGTTCTTGCCGTTAATCCTG
 AAAGAAGTTAACTCACTATTGTATGTCGACACTGATATCCTTTTTTACGACCAGTTGATGATATTTGG
 TCTTTACTAAAGAAATTTAATCCACACAAATTGCTGCAATGGCACCAGAACATGAGGAACCTCGAATA
 GGATGGTATAATCGCTTTGCTAGGCATCCATATTATGGAAGAACTGGAGTAACTCTGGAGTTATGTTG
 ATGAACATGACTCGAATGAGAAGGAAGTATTTCAAGATGATATGACAACTGTACGACTACAATGGGA
 GATATACTTATGCCATTGCTTAAAAATACAACTAAACATCACATGGGGTGATCAAGATCTATTGAAT
 ATCGTGTTTTTTCATAATCCAGAAAGCCTTTTTGTTTTTCCGTGTCAATGGAATTATCGACCAGATCAT
 TGTATATATGGAAGCAATTGCCAAGAAGCAGAAGAAGGAGGAATCTTTATTCTTCATGGGAACAGAGGT
 GTTTACCATGACGATAAGCAACCAGCATTTAGAGCTGTTTATGAAGCACTGAGAAATTGTTCTTTTGAA
 GATGACAACATCCGTTCTTATTTAAACCTTTAGAACTGGAACACAAAAACAGTGCATACATACTGT
 GGAAAAATTTACAAATATTTATCAAACTAGCAAAAGTGTAAAGAGATCGTTATGCCAGATCACCA
 AAGGAAAAAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC


[View online »](#)

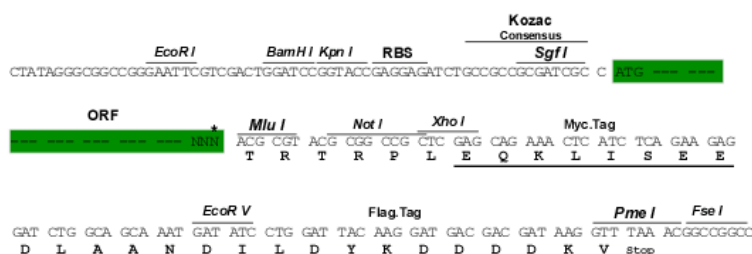
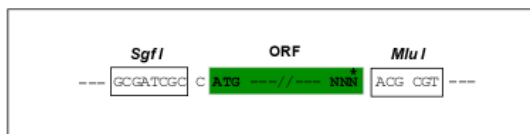
Protein Sequence: >Peptide sequence encoded by RC220465
Blue=ORF Red=Cloning site Green=Tag(s)

MRRYLRVVVLVACGFCSLLYAFSQLAVSLEEGTGGGGKKPQAAVASWLAGGGRGAVRGAGVAGPAAPH
 GVSDRCKDFSLCYWNPNYMWLPSDVCGMNCFWEAAFRYSLKIQPVEKMHLAVVACGERLEETMTMLKSAI
 IFSIKPLQFHIFAEQDLHHSFKGRLDNWSFLQTFNYTLYPITFPSENAAEWKLFKPCASQRLFLPLIL
 KEVNSLLYVDTDILFLRPVDDIWSLLKKFNSTQIAAMAPEHEEPRIGWYNRFARHPYYGKTVNSGVML
 MNMTRMRKRYFKNDMTTVRLQWGDILMPLLLKKYKLNITWGDQDLNIVFFHNPESLFFVPCQWNYRPDH
 CIYGSNCQEAEEGGIFILHGNRGVYHDDKQPAFRVYEALRNCSEDDNIRSLKPLELELQKTVHTYC
 GKIYKIFIKQLAKSVDRDYARSPKEK
 TRTRP**LEOKLISEED**LAANDIL**DYKDDDDKV**

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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.

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

RefSeq Size: 7509 bp

RefSeq ORF: 1323 bp

Locus ID: 283464

UniProt ID: [Q4G148](#)

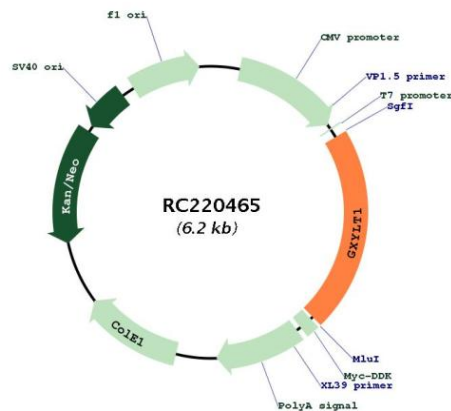
Cytogenetics: 12q12

Protein Families: Transmembrane

MW: 50.6 kDa

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 RC220465