

Product datasheet for SC316742

GXYLT1 (NM_001099650) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	GXYLT1
Synonyms:	GLT8D3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316742 representing NM_001099650. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGGCGCTACCTGCGCGTGTGGTGTGTGTGGCCTGCGGCTTCTGCTCGCTCCTTTACGCTTTT
AGCCAGCTCGCCGTGTCCCTGGAAGAAGGAACGGGCGGCGGTGGCGGGAAGCCGAGGCCGCGGTGGCT
TCCTGGCTCGCGGGCGCGGACGCGCGCCGTGAGAGGCGCGCGCTCGCGGGCCCCGACGCGCATCCC
GGCGTGTGCGACAGGTACAGTCTGAAAATACAGCCTGTTGAGAAAATGCATCTAGCTGTAGTTGCCTGT
GGTGAAGACTGGAAGAACTATGACCATGTTGAAGTCAGCTATCATTTTCAGCATCAAACCTCTTCAA
TTCCATATTTTGTGCTGAAGATCAGCTACATCATAGCTTTAAAGGCAGACTTGACAACCTGGTCATTTCTA
CAAACATTTAATTATACGTTATACCCATAACCTTTCCAAGTGAGAATGCAGCAGAGTGGAAGAACTC
TTTAAACCATGTGCTTCGACAGAGATTGTTCTTGCCGTTAATCCTGAAAGAAGTTGACTCACTATTGTAT
GTCGACACTGATATCCTTTTTTACGACCAAGTTGATGATATTTGGTCTTTACTAAAGAAATTTAATTCC
ACACAAATTGCTGCAATGGCACCAGAACATGAGGAACCTCGAATAGGATGGTATAATCGCTTTGCTAGG
CATCCATATTATGGAAGAACTGGAGTAACTCTGGAGTTATGTTGATGAACATGACTCGAATGAGAAGG
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AGCCTTTTTGTTTTTCCGTGTCAATGGAATTATCGACCAGATCATTGTATATATGGAAGCAATTGCCAA
GAAGCAGAAGAAGGAGGAATCTTTATTCTTCATGGGAACAGAGGTGTTTACCATGACGATAAGCAACCA
GCATTTAGAGCTGTTTATGAAGCACTGAGAAATGTTCTTTTGAAGATGACAACATCCGTTCTTTATTA
AAACCTTTAGAACTGGAACACAAAAACAGTGCATACATACTGTGAAAAATTTACAAAAATTTATC
AAACAACTAGCAAAAAGTGTAAGAGATCGTTATGCCAGATCACCAGGAAAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



ACCN:	NM_001099650
Insert Size:	1230 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:	<u>NM_001099650.1</u>
RefSeq Size:	7416 bp
RefSeq ORF:	1230 bp
Locus ID:	283464
UniProt ID:	<u>Q4G148</u>
Cytogenetics:	12q12
Protein Families:	Transmembrane
MW:	46.8 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]

Transcript Variant: This variant (2) lacks an in-frame exon in the 5' region, compared to variant 1. The resulting isoform (2) lacks an internal segment in the N-terminal region, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.