

Product datasheet for **SC305011**

XYLT1 (NM_022166) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XYLT1 (NM_022166) Human Untagged Clone
Tag:	Tag Free
Symbol:	XYLT1
Synonyms:	DBQD2; PXYLT1; XT-I; XT1; XTl; xylT-I; XYLTl
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_022166 edited
 ATGGTGGCGGCGCGTGCGCCGGAGGCTGGCCCGGCGCTCGCACTCGGCGCTGCTCGCG
 GCGCTCACGGTGTCTGCTGCAGACGCTGGTCGTGTGGAATTTTCAGCAGCCTCGACTCC
 GGGGCCGGGAGCGCCGCGGGGGCGCAGCGGTGGCGGGGGAGCAGCCGCCCCCGGCC
 CCGGCCCGCGCCGGGAGCGCCGGGACCTGCCCGCGAGCCGGCTGCAGCCCGAGGAGGA
 GGAGGAGCGCGCGGGAGGAGGAGGAGGAGGACGGGGGCCAGGCGCGGGCGGGGAGGC
 GGCCCGGAGAACC CGGGGACAGCAGCCGGCCAGCCGGGGGGCACTGCCCGCCCGGGCT
 CTGGATCCACACCCAAGTCCGCTCATCACCTGGAGACTCAGGATGGCTACTTTTCTCAT
 CGGCCGAAAGAGAAAGTGCGAACAGACAGCAACACGAGAACTCTGTCCCAAAGACTTT
 GAGAATGTCGACAACAGCAACTTCGACCCAGGACTCAAAAGCAGAAGCACCAGCCTGAG
 TTGGCGAAGAAGCCACCGAGTAGACAGAAGGAGCTTTTAAAAGGAAGCTGGAACAGCAG
 GAGAAAGAAAAGGACATACATTCCTGGGAAAGGCCCGGTGAGGTGCTGCCTCCCGGG
 GACAGAGCCGACGCAACAGCAGCCACGGGAAGGATGTGTCCAGACCCGCTCATGCCAGG
 AAAACTGGGGCAGCTCCCCGAGACCAAGTATGACCAGCCCCAAGTGTGACATCTCA
 GGCAAGGAGGCCATCTCTGCCCTGTCCCGTGTAAAGTCAAGCACTGCCCGCAGGAGATT
 GGGGAGACTTACTGCCGCCACAAGTTAGGGCTGCTGATGCCTGAGAAGGTGACTCGGTT
 TGCCCCCTCGAGGGTAAAGCCAACAAGAACGTGCAGTGGGACGAGGACTCCGTGGAGTAC
 ATGCCAGCCAACCCGGTCAAGTTCGCTTTGTCCTGGTGGTCCACGGCCGTGCCTCTCGG
 CAGTTGCAGCGCATGTTCAAGGCCATCTACCACAAAGACCACTTCTACTACATCCACGTG
 GACAAGCGCTCTAATTACCTGCATCGGCAAGTGTCCAGGTCTCCAGGCAGTACAGCAAT
 GTCCGCGTCAACCCCTGGAGAATGGCCACCATCTGGGGAGGAGCCAGCCTCCTGTCCACC
 TACCTGCAGAGCATGCGGGACCTCCTGGAGATGACCGACTGGCCCTGGGACTTCTTCATC
 AACCTGAGTGGCGCCACTACCCCATCAGGACAAATGACCAGTTGGTGGCGTTTCTCTCC
 CGATACCGAGATATGAATTTCTTGAAGTACACGCGCGGACAATGCAAGGTTTCATTTCGG
 AAGCAGGGCCTGGATCGGCTCTTCTGGAGTGGCAGCTCACATGTGGCGCTGGGAGAT
 CGGCGGATCCCAGAGGGCATTGCCGTGGATGGCGGTTCCGACTGGTTCCTGCTGAACCGG
 AGGTTTGTAGAATATGTGACCTTCTCCACAGACGATCTGGTGACCAAGATGAAACAGTTC
 TACTCCTACACCCTGCTTCTGCTGAGTCTTCTTCCATACGGTCTGGAGAACAGCCCC
 CACTGCGACACCATGGTGGACAACAACCTGCGCATCACCAACTGGAATCGCAAGTGGGC
 TGCAAGTGCCAGTACAAGCACATCGTGGACTGGTGGCGTCTCCCCAATGACTTCAAG
 CCGCAGGACTTCCACCGCTTCCAGCAGACAGCCGGCCTACCTTCTTTGCCCGCAAGTTT
 GAAGCCGTGGTGAATCAGGAAATCATTGGCAGCTGGACTATTACCTGTACGGGAATAC
 CCTGCAGGTACCCCGGGCCTGCGCTCCTACTGGGAGAATGTCTACGATGAGCCTGACGGC
 ATCCACAGCCTGAGCGACGTGACACTCACCTTGTACCACTCCTTTGCCCGCTGGGTCTT
 CGACGGGTGAGACGTCCCTGCACACGGATGGGGAGAAGCTGCCGATACTACCCAATG
 GGCCACCCAGCATCTGTGACCTTACTTCTTGTGACCGCTTCCAGGGCTTTCTGATC
 AAGCATCATGCTACCAATCTGGCTGTGAGCAAAGTACGAGACTCTGGAGACCTGGGTGATG
 CCGAAAAAAGTCTTCAAGATCGCAAGCCACCCAGTACTTTGGGAGGCTTCAGTTTTCC
 GAGGTGGCACTGACTGGGATGCCAAGGAGAGGCTATTCGCAACTTTGGGGTCTTCTG
 GGGCCCATGGATGAGCCGGTGGGTATGCAGAAGTGGGGGAAGGGACCTAATGTGACCGTG
 ACCGTCATTTGGGTGGATCCCGTCAATGTCATCGCAGCCACCTACGACATCCTCATTGAG
 TCCACTGCCGAATTCACACACTACAAGCCCTTTGAACTTGCCCTGAGGCCTGGGGTCT
 TGGACAGTGAAAATCTCCACCACTGGGTGCCAGTTGCAGAGACCAAAATCTCGTTGCG
 CCTCTGACCTTCTCGAACAGGCAGCCATCAAACCTGAGGAGGCACTGAAGCTGCACAA
 TGGCCCCCTCCGAATGCCTACATGGAGCAGAGCTTCCAGAGCCTAAACCCCGTCTCAGC
 CTGCCATCAACCCCGCCAGGTGGAACAGGCACGGAGGAACGCAGCCTCCACGGGCACA
 GCCTGGAGGGATGGCTGGACTCGTTGGTGGCGGGATGTGGACTGCCATGGACATCTGT
 GCCACGGGCCACAGCCTGCCCGTATGCAGACCTGCAGCCAGACGGCCTGGAGCTCC
 TTCAGCCCTGACCCCAAGTCCGAGCTGGGGCAGTCAAACCTGATGGCCGGCTCAGGTAG

Restriction Sites:

Please inquire

ACCN:	NM_022166
Insert Size:	8000 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:	<ol style="list-style-type: none"> 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:	<u>NM_022166.2</u> , <u>NP_071449.1</u>
RefSeq Size:	4178 bp
RefSeq ORF:	2880 bp
Locus ID:	64131
UniProt ID:	<u>Q86Y38</u>
Cytogenetics:	16p12.3
Protein Families:	Transmembrane
Protein Pathways:	Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways
Gene Summary:	This locus encodes a xylosyltransferase enzyme. The encoded protein catalyzes transfer of UDP-xylose to serine residues of an acceptor protein substrate. This transfer reaction is necessary for biosynthesis of glycosaminoglycan chains. Mutations in this gene have been associated with increased severity of pseudoxanthoma elasticum.[provided by RefSeq, Nov 2009]