

## Product datasheet for **SC112785**

### **XYLT2 (NM\_022167) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	XYLT2 (NM_022167) Human Untagged Clone
Tag:	Tag Free
Symbol:	XYLT2
Synonyms:	PXYLT2; SOS; XT-II; XT2; xylT-II
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC112785 sequence for NM\_022167 edited (data generated by NextGen Sequencing)

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ATGGTGGCGAGCGCGGAGTGCAGAAGCTGGTGCGGCGCTACAAGCTGGCGATTGCCACG
GCGCTGGCCATCCTGCTGCTGCAGGGCCTGGTAGTGTGGAGCTTCAGCGGCTGGAGGAG
GACGAGGCGGGGAGAAAAGGAAGGCAGAGGAAGCCACGGCCACTGGACCTGGCGAAGGT
TCCAAGGACACAGACAGTTCAGCAGGGCGACGGGCGAGCACAGGCAGAAGGCATGGGCGC
TGGCGGGGCCGCTGCTGAGAGCCAGGAGTGCCTGGCCAAAGGTGGTACGGGCAGTAACC
AGCCGGCAGAGAGCCAGCCGGCGGGTCCCACCTGCCCCACCTCCGGAAGCCCCAGGCCGC
CAGAACCTGAGTGGGGCAGCAGCTGGGGAGGCGCTGGTAGGGGCAGCTGGCTTCCCACCA
CACGGAGATACAGGGAGCGTGGAGGGCGCCCCCAGCCACGGACAATGGCTTACCCCC
AAGTGGAGATCGTGGGCAAGGACGCACTGTCTGCACTGGCCGGGCCAGCACCAAGCAG
TGCCAGCAGGAGATCGCCAATGTGGTGTGCTGCACCAGGCTGGGAGCCTCATGCCAAG
GCTGTGCCCGGCACTGTGAGTACTGGGAAGATGAGCCCCGGCATCCAGTGGGATGAG
AGCCAAGCCAGCAGCCATGGATGGCCCCCGGTGCGAATCGCTACATGCTGGTGGTT
CACGGCCGCGCCATCCGCCAGCTGAAGCGTCTCCTCAAGGCCGTTTATCACGAGCAGCAC
TTCTTTTACATCCATGTGACAAGCGTTCGGACTACCTGCACCGGAGGTTGGTGGAGCTG
GCCAGGGCTATGATAACGTGCGGGTGACGCCCTGGCGCATGGTTACCATCTGGGGCGGG
GCCAGCCTCCTGACGATGTACCTGCGGAGCATGCGGGACCTGCTAGAGGTGCCTGGCTGG
GCCTGGGACTTCTTATCAACCTCAGTGCCACTGACTATCCAACCAGGACCAATGAGGAG
CTGGTGGCATTCTATCAAGAACCAGGACAAGAATTTCTCAAGTCACATGGCCGGGAC
AACTCCAGGTTTCAAGAAACAGGGCCTGGACCGGCTCTTCCATGAGTGGGACTCACAC
ATGTGGCGCCTGGGCGAGCGGCAGATCCCAGCAGGCATTGTGGTGGATGGCGGTTCTGAC
TGGTTCGTGCTGACACGCAGCTTTGTGGAGTATGTGGTACACAGATGACCCCGTTGTG
GCCAGCTGCGCCAGTTCTACACATACACTGCTCCCAGCCGAGTCCTTCTTCCACACG
GTGCTGGAGAACAGCCTGGCCTGTGAGACCCTCGTGGACAACAACCTGCGGGTACCAAC
TGGAACCGCAAGCTGGGCTGCAAGTGCCAGTACAAGCACATTGTGGACTGGTGTGGCTGC
TCCCCAACGACTTCAAGCCACAGGACTTCTCCGGCTGCAGCAAGTCTCCAGACCCACC
TTCTTCGCCCCGAAGTTCGAGTCGACTGTGAACCAGGAGGTGCTGGAAATCCTGGACTTC
CACCTGTACGGCAGCTACCCCCCGGCACGCCAGCCCTCAAGGCCTACTGGGAGAACACC
TACGACCGGCTGATGGCCCCAGTGGGCTCAGTGTGTCATGCTCACTGCTTACACAGCC
TTCGCCCCCTCAGCCTGCACCATGCCGCCACTGCTGCACCCCCAATGGGCACCCCACTC
TGCAAGTTTGGAGCCAGGGGCTTCCCGTCCAGCGTGCACCTGTATTTCTATGACGACCAT
TTCCAGGGCTACCTGGTACGCAGGCGGTGCAGCCCTCAGCCCAGGGGCCGCGAGAGACG
CTTGAGATGTGGCTGATGCCCAAGGGTCGCTGAAGCTGTTGGGGCGCAGTGACCAGGCC
AGCCGGCTCCAGAGTCTGGAGGTTGGCACTGATTGGGACCCAAAGAGCGTCTTTTCCGG
AACTTTGGGGGGTTACTGGGGCCGCTGGACGAGCCTGTGGCCGTGCAGCGCTGGGCCCCG
GGCCCCAACCTCACAGCCACAGTGGTCTGGATCGACCCAACTATGTGGTGGCCACATCT
TATGACATCACAGTAGATACGGAGACTGAGGTCACGCAATACAAGCCCCCACTGAGCCGG
CCCTGCGGGCCAGGGCCCTGGACTGTTGACTCCTTCAGTTCTGGGAACCGCTGGGTGAG
ACCCGCTTCTTGTGCTGCCCTTGACCTTCAACCGCAAACCTACCTCTCAGGAAAAGATGAT
GCCAGCTGGCTGCACGCAGGGCCACCCACAACGAGTACATGGAGCAGAGTTTCCAGGGC
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ACACAGCTCACAGGCCCTGCGCTCGAGGCTGGACAGACAGGAACTGAGCAGCTTCTGG
TCCGTGGCTGGACTGTGTGCCATAGGCCCTCTCCCTGCCCTCCCTGGAGCCCTGCAGA
CTGACCAGCTGGAGCTCTGTGCCCGACCCAAATCAGAGCTGGGGCCTGTCAAAGCA
GACGGGCGACTCAGGTAG

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Clone variation with respect to NM\_022167.2  
 177 g=>a;342 c=>t;914 g=>c;1569 t=>c

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_022167 unedited  
TATAACCCCGCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAA  
GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCG  
CGAATTCGGCAGCAGGGTTGCAGGGCTGGGCGCGCCCCGCGTCCCAGGAGGAAGATG  
GTGGCGAGCGCGAGTGCAGAAGCTGGTGCAGCGCTACAAGCTGGCGATTGCCACGGCG  
CTGGCCATCCTGCTGCTGCAGGGCCTGGTAGTGTGGAGCTTCAGCGGCCTGGAGGAGGAC  
GAGGCGGGCGAGAAAGGAAGGCAGAGGAAGCCACGGCCACTGGACCCTGGCGAAGGTTCC  
AAGGACACAGACAGTTCAGCAGGGCGACGGGCGACAGGCAGAAAGGCATGGGGCCTGG  
CGGGCCGTGCTGAGAGCCAGGAGTGCCCGTGGCCAAGGTGGTACGGGCGAGTAACCAGC  
CGGCAGAGAGCCAGCCGGCGGGTCCCACCTGCCCCACCTCCGGAAGCCCCAGGCCGCCAG  
AACCTGAGTGGGCGAGCAGCTGGGGAGGCGCTGGTAGGGCAGCTGGCTTCCCACCACAC  
GGAGATACAGGGAGCGTGGAGGGCGCCCCAGCCACGGACAATGGCTTACCCCCAAG  
TGCGAGATCGTGGCAAGGACGCACTGTCTGCACTGGCCCGGGCCAGCACCAGCAGTGC  
CAGCAGGAGATCGCCAATGTGGTGTGCCTGCACCAGGCTGGGAGCCTCATGCCAAAGGCT  
GTCCCCGGCACTGTGAGTGTGAGGAAAGATGAGCCCCGGCATCCAGTGGGATGAGAGC  
CAAGCCCAGCAGCCATGGATGGCCCNCGGTGCGAATCNCTCATGCTGGTGGTTCACG  
GCCGCGCCATCCGCCAGCTGGAGCGTCTNCTCAAGGCCT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_022167 unedited  
CGGGGAAATACTATGTACGCGGCCGCTTTCTANGATCGATTTTTTTTTTTTTTTTTTAGA  
GGAGAAGAGATATATTTCTTCTGTTGCATATTTTACAGCTTACGCTGAGCTTCAGGCACA  
ATTACTCCAGTTCTTCTGAGAGTCTTGACAGAGTCTTCTTCCCACGCTGCTCATGTGAC  
CTCACTTCCAGTGCACACCTGAAAACCTGTCATGGGTCTCATTGGGCCCTGACCCCTGCC  
TTCCCATCCAGGGCAGGGTATGCTGAAAGCCCTGGAGCCGCCACCCCACTTCTAGG  
GTCCCCTGGCTACAAAAGAACTGTCTGCTAGAGCCAGCTCTGCAGCGCCCCGATATC  
ACCTGTTCTTCGGGCTTAGAGCCTGGCAGGGCACTTGCAGCCCTGTGGAGCCTCAGCCA  
CGAGCACCACAGGCCAGAATGGGGCATGAGGCCCTGGAGAGTGGGCAAGCCAGCCCTC  
GTGCAGAAACAATAGCAGGTGGGCTCAACAAGCCCTGCTCCCCACAGACATGGCCCACT  
CCTGGGCTGCTCTGAGCCCTATTGCACATCTTCTGGTCTAGTTTCTCTCCAACCACCC  
ATTTTCTTTTTAAATTTAAAAACAAAAAAGAAAAAGAAAAAAGAAATTTCCACTATA  
CCGGAAGGTGAAGAAGAACTGGGGTGGAAATGCTGCTGTGCCCTTTTGGGTTTCCGCCA  
GCCCTCTGGATCCCCACAAAAACTCAGCAGTAGTTTATAATGGGGCCACCTTCTCTGGC  
CCCTGTGTGGGTTCTTGAAGGGTCAAAGGGGGGCAACCCTGGGCCCTGGTTTCTTG  
CCCAGTGGGAGAGGAGAACCCTCCCCTGGGTTGA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_022167

**Insert Size:**

3700 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).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_022167.1</a> , <a href="#">NP_071450.1</a>
<b>RefSeq Size:</b>	3568 bp
<b>RefSeq ORF:</b>	2598 bp
<b>Locus ID:</b>	64132
<b>UniProt ID:</b>	<a href="#">Q9H1B5</a>
<b>Cytogenetics:</b>	17q21.33
<b>Domains:</b>	Branch
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways
<b>Gene Summary:</b>	<p>The protein encoded by this gene is an isoform of xylosyltransferase, which belongs to a family of glycosyltransferases. This enzyme transfers xylose from UDP-xylose to specific serine residues of the core protein and initiates the biosynthesis of glycosaminoglycan chains in proteoglycans including chondroitin sulfate, heparan sulfate, heparin and dermatan sulfate. The enzyme activity, which is increased in scleroderma patients, is a diagnostic marker for the determination of sclerotic activity in systemic sclerosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2013]</p> <p>Transcript Variant: This variant (1) represents the protein-coding transcript.</p>