OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC222809

Xylt1 (NM_175645) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xylt1 (NM_175645) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Xylt1
Synonyms:	8030490L12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC222809 representing NM_175645
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGCGGCGCCGTGCGCCCGGAGGCTGGCGCGGCGCTCGCACTCGGCGCTGCTGGCGGCGCTCATGG
TGCTGCTGCTGCAGACGCTGGTGGTGTGGAATTTCAGCAGCCTGGACTCCGGGGCTGGAGAGCAGCGGCG
CGCGGGGGCAGCGGCGGGAGCAGCCGAGCAGCAGCAGCCCGCGGCCCCGCGCCGGGAGCGCAGGGACCTG
GCTGCCCATCTGCCCGCAGCCCGCGGAGGACCTGGAGGCCGAGCCGGCGGAGGAGGAGCACGGGGAGGCG
GCCCCGGAGGAGCCCGCGCACAGCAGCCTGCCAGCCGCGGGGCACTAGCCTCCCGGGCGAGGGATCCACA
ACCAAGTCCACTGATCACCCTAGAGACCCAGGATGGCTACTTCTCTCACCGTCCCAAAGAGAAAGTTCGG
ACCGACAGCAACAATGAGAACTCAGTCCCCAAGGACTTTGAGAATGTGGATAACAGCAACTTCGCCCCCA
GGACCCAGAAGCAGAAACACCAGCCAGAGCTGGCAAAGAAGCCCCCCAGCAGGCAGAAAGAGCATTTGCA
GAGAAAGCTGGATGCCCAGGACAAACGACAGGGCCAGTCAGTCCTGGGGAAAGGCCCCAAGGAGGTGCTG
CCTCCTCGGGAGAAAGCCACAGGCAACAGTAGCCAAGGGAAGGATCTCTCAAGACACAGCCATGCCAGGA
AGAGTGGTGGTGGTGGGTCCCCCGAAACCAAGTCTGACCAGGCCCCCAAGTGTGATATCTCTGGCAAGGA
GGCCATCTCAGCACTGACCCGCGCTAAGTCCAAGCATTGTCGCCAGGAGATTGCAGAAACCTACTGTCGC
CACAAGCTGGGGCTGCTGATGCCAGAGAAGGTGGCTCGATTCTGTCCCCTAGAAGGCAAAGCCAACAAGA
ATGTCCAGTGGGATGAGGATGCTGTGGAGTACATGCCTGCCAACCCAGTCAGAATCGCCTTTGTCCTGGT
GGTCCATGGCCGTGCCTCTCGACAGCTACAGCGCATGTTCAAGGCCATCTACCACAAAGACCATTTCTAC
TATATCCATGTGGATAAGCGTTCCAATTACCTGCATCGGCAAGTGCTCCAGTTCTCCAGGCAGTACGACA
ATGTCCGAGTCACCTCCTGGAGGATGGCCACCATTTGGGGTGGAGCCAGCCTCCTGTCCACCTACCTGCA
GAGCATGCGGGATCTACTAGAGATGACTGACTGGCCCTGGGACTTCTTCATCAACCTCAGTGCTGCTGAC
TACCCCATCAGGACAAATGACCAGCTGGTAGCATTTCTTTCCAGATATCGAGATATGAACTTCCTGAAGT
CACATGGCCGGGACAATGCAAGGTTCATCCGGAAGCAGGGCCTGGACCGCCTCTTCCTGGAGTGTGATAC
ACACATGTGGCGCCTGGGGGACCGGCGGATCCCAGAGGGCATTGCTGTGGATGGTGGTTCTGATTGGTTC
CTGCTAAACAGGAAGTTTGTAGAGTATGTGGCATTCTCCACAGATGACCTGGTGACCAAGATGAAGCAGT
TCTACTCTTACACCCTTCTCCCTGCTGAGTCCTTTTTCCACACGGTTCTAGAGAACAGCCCCCACTGTGA
CACCATGGTGGATAACAACCTGCGCATCACCAACTGGAACCGCAAGCTGGGCTGCAAGTGCCAGTACAAG
CATATCGTGGACTGGTGCGGCTGCTCTCCCAATGACTTCAAGCCTCAGGACTTCCATCGCTTCCAGCAGA
CAGCCCGGCCCACCTTCTTTGCCCGAAAGTTCGAAGCCATAGTGAACCAGGAGATCATTGGGCAGCTGGA
CTCTTACCTGTACGGGAACTATCCTGCGGGCACCCCGGGCCTCCGCTCCTACTGGGAGAATGTCTACGAT
GAACCAGATGGCATCCACACCCTCAGCGATGTAGCCCTCACCCTGTACCATTCCTTCATCCGTCTGGGTC
TTCGAAGAGCTGAGTCATCCCTACACACGGATGGGGAGAACAGCTGCAGGTACTACCCAATGGGCCACCC
AGCTTCTGTCCATCTCTACTTCCTTGCTGACCGATTCCAGGGCTTTCTGATCAAGCATCACGTGACCAAC
CTTGCTGTGAGCAAACTGGAGACACTGGAGACATGGATGATGCCAAAGAAAGTCTTCAAGGTCGCAAGTC
CCCCCAGTGACTTTGGAAGGCTTCAGTTTTCTGAGGTTGGCACTGACTGGGATGCCAAGGAGAGGCTGTT
CCGGAACTTTGGTGGTCTTTTGGGGCCCATGGATGAGCCGGTGGGGATGCAGAAATGGGGAAAGGGGCCC
AATGTGACCGTGACTGTTATTTGGGTGGATCCTGTCAACGTCATTGCAGCCACCTATGATATCCTGATTG
AGTCCACTGCGGAATTCACACACTACAAGCCCCCTTTGAATCTGCCTCTGAGGCCTGGGGTCTGGACAGT
GAAGATTCTCCATCACTGGGTGCCAGTGGCAGAGACCAAATTCCTTGTGGCACCTTTGACCTTTTCCAAC
AAGCAGCCCATCAAACCAGAGGAGGCTTTGAAGCTGCACAATGGGCCACCTCGCAGTGCCTACATGGAGC
AGAGTTTCCAGAGCCTGAACCCAGTCCTCAGCCTGCACATCAATCCTGCCCAAGTCGAACAGGCCCGGAA
GAATGCAGCCTTCACCGGGACAGCGCTAGAAGCCTGGCTGGACTCGCTGGTGGGTGGGACTTGGACTGCC
ATGGACATCTGCACCACAGGCCCCACCGCCTGCCCAGTCATGCAGACCTGCAGCCAAACAGCCTGGAGTT
CCTTCAGCCCTGATCCCAAGTCAGAGCTGGGTGCAGTCAAACCTGACGGACGGCTCAGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_175645
Insert Size:	2862 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).
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_175645.3, NP_783576.2
RefSeq Size:	3070 bp
RefSeq ORF:	2862 bp
Locus ID:	233781
UniProt ID:	Q811B1
Cytogenetics:	7 F1
Gene Summary:	Catalyzes the first step in the biosynthesis of chondroitin sulfate and dermatan sulfate proteoglycans, such as DCN. Transfers D-xylose from UDP-D-xylose to specific serine residues of the core protein. Required for normal maturation of chondrocytes during bone development, normal onset of ossification and normal embryonic and postnatal skeleton development, especially of the long bones.[UniProtKB/Swiss-Prot Function]