

## Product datasheet for **MC216606**

### **Pxylp1 (NM\_153420) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pxylp1 (NM_153420) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pxylp1
Synonyms:	9430094M07Rik; Acpl2; BB177120; C130099A20Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216606 representing NM\_153420  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTTACCCTAATCGCTTCTTGGTGCTGCTGGCCCTGGCTGGGCTCTTGGCTTTCCTGAGCCTCAGCC  
 TGCAGTTCCTCCACTTGATCCCAGTGTCTGCCACAAGAATGGAGGAAGCAGCAAGAGTCGAAAGAGGAT  
 CATGCCTGACCCAGTGACAGAGCCTCCACCGTAGACCCGGTTTATGAAGCTCTTCTGTACTGCAACATT  
 CCAAGCGTAGCGGAGCACAGCATGGAAGGTCATGCCCCGCATCATTATAAGCTGGTCTCCGTTTCATGTGT  
 TCATTCGCCATGGGGACAGGTACCCACTGTATGCCATTCCAAAAACAAGCGGCCAGAAATCGACTGCAC  
 TCTAGTGGCTAGCAGGAAGCCGTATCACCTAACTAGAAGCTTTCATTAGTCACATGTTGAAAGGATCC  
 GGAGCCTCTTTGAAAGCCCTTAAATTCCTGCCTCTCTATCCTAACCATCCTGTGTGAGACGGGAG  
 AGCTCACGCAGACAGGAGTCGTGCAGCATCTGCTGAATGGCCAGCTGCTGAGGGACATCTATCTGAGGAA  
 ACACAAACTTCTGCCAACAACTGGTCTCAGACCAGCTTACCTGGAGAGCACGGGGAAGAGCCGCACC  
 CTGCAGAGCGGGTAGCCCTGCTCTACGGCTTCTCCAGAGTTTGACTGGAAGAAGGTTTATTTCAAGC  
 ACCAGCCAAGTGCCCTGTTCTGCTCTGGAAGCTGCTACTGCCCGCTGAGAAACCAGTATCTGGAGAAGGA  
 ACAGCGACGCCAGTACCTGCTACGTTTGAAGAACAGCGACCTAGAGAGGACCTACGGGGAGATGGCCAAG  
 ATTGTGGACATCCCCACGAAGCAGCTCCGCGCGGCCAACCCCATCGATTCCATGCTCTGCCACTTCTGCC  
 ACAATGTCAGCTTCCCCTGCAGCAGAAGCGGCTGCCTTGGCATGGAGCACTTCAAGGTGATCAAGACGCA  
 CCAGATAGAGGATGAGAGGGAGCGCCACGAGAAGCTCCTGTACTTTGGTACTCCCTCCTCGGGGCCAC  
 CCCATCCTAAATCAGACGGTCAACCGGATGCAGCGCGCTGCCTCGGGCTGGAGGGATGAGCTGTTACCC  
 TCTACTCTGCTCATGACGTACCCTGTACCCATCCTCAGTGCCTTGGTCTTTTGAAGCCAGGTTCCC  
 GAGGTTTGCCCGCAGGCTGGTTTTTGGCTCTGGCAAGACCGTCAAAGCCAGTGAACATTCGGTCCGA  
 ATTCTTTATAACGGGGCTGATGTTACCTCCACACCTCCTTCTGCCATGACTTCCACAAGCGCTCTCCCA  
 AGCCTATGTGCTCTTGTGAGAACTTGGTCCGCTTGTCAAACGGGATATGTTTGTGGCCCTGGATGGCAG  
 TAGTACTAACTATTACGATGCCTGTCATGGGGAAGGGCC**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_153420

**Insert Size:** 1443 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\\_153420.3](#), [NP\\_700469.1](#)

RefSeq Size: 3172 bp

RefSeq ORF: 1443 bp

Locus ID: 235534

UniProt ID: [Q8BHA9](#)

Cytogenetics: 9 E3.3

**Gene Summary:** Responsible for the 2-O-dephosphorylation of xylose in the glycosaminoglycan-protein linkage region of proteoglycans thereby regulating the amount of mature glycosaminoglycan (GAG) chains. Sulfated glycosaminoglycans (GAGs), including heparan sulfate and chondroitin sulfate, are synthesized on the so-called common GAG-protein linkage region (GlcUA $\beta$ 1-3Gal $\beta$ 1-3Gal $\beta$ 1-4Xyl $\beta$ 1-O-Ser) of core proteins, which is formed by the stepwise addition of monosaccharide residues by the respective specific glycosyltransferases. Xylose 2-O-dephosphorylation during completion of linkage region formation is a prerequisite for the initiation and efficient elongation of the repeating disaccharide region of GAG chains. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3 and 4 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.