

Product datasheet for **MC227913**

Pxylp1 (NM_001289646) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pxylp1 (NM_001289646) 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: >MC227913 representing NM_001289646
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTTACCCTAATCGCTTCTTGGTGCTGCTGGCCCTGGCTGGGCTCTTGGCTTTCCTGAGCCTCAGCC
 TGCAGTTCCTCCACTTGATCCCAGTGTCTGCCACAAGAATGGAGGAAGCAGCAAGAGTCGAAAGAGGAT
 CATGCCTGACCCAGTGACAGAGCCTCCACCGTAGACCCGGTTTATGAAGCTCTTCTGTACTGCAACATT
 CCAAGCGTAGCGGAGCACAGCATGGAAGGTCATGCCCCGCATCATTATAAGCTGGTCTCCGTTTCATGTGT
 TCATTCGCCATGGGGACAGGTACCCACTGTATGCCATTCCAAAACAAAGCGGCCAGAAATCGACTGCAC
 TCTAGTGGCTAGCAGGAAGCCGTATCACCTAACTAGAAGCTTTCATTAGTCACATGTTGAAAGGATCC
 GGAGCCTCTTTGAAAGCCCTTAAATTCCTGCCTCTCTATCCTAACCATCCTCTGTGTGAGACGGGAG
 AGCTCACGCAGACAGGAGTCGTGCAGCATCTGCTGAATGGCCAGCTGCTGAGGGACATCTATCTGAGGAA
 ACACAACTTCTGCCAACAAGTGGTCTCAGACCAGCTTACCTGGAGAGCACGGGAAGAGCCGCACC
 CTGCAGAGCGGGTAGCCCTGCTCTACGGCTTCTCCAGAGTTTGACTGGAAGAAGGTTTATTTCAAGC
 ACCAGCCAAGTGCCTGTTCTGCTCTGGAAGTCTACTGCCCGCTGAGAACCAGTATCTGGAGAAGGA
 ACAGCGACGCCAGTACCTGCTACGTTTGAAGAACAGCGACCTAGAGAGGACCTACGGGGAGATGGCCAAG
 ATTGTGGACATCCCCACGAAGCAGCTCCGCGCGGCCAACCCCATCGATTCCATGCTCTGCCACTTCTGCC
 ACAATGTCAGCTTCCCCTGCAGCAGAAGCGGCTGCCTTGGCATGGAGCACTTCAAGGTGATCAAGACGCA
 CCAGATAGAGGATGAGAGGGAGCGCCACGAGAAGCTCCTGTACTTTGGTACTCCCTCCTCGGGGCCAC
 CCCATCTAAATCAGACGGTCAACCGGATGCAGCGCGCTGCCTCGGGCTGGAGGGATGAGCTGTTACCC
 TCTACTGCTCATGACGTACCCTGTACCCATCCTCAGTGCCTTGGGCTTTTGGAGCCAGGTTCC
 GAGGTTTGCCCGCAGGCTGGTTTTTGGCTCTGGCAAGACCGTCAAAGCCAGTGAACATTCGGTCCGA
 ATTCTTTATAACGGGGCTGATGTTACCTCCACACCTCCTTCTGCCATGACTTCCACAAGCGCTCTCCCA
 AGCCTATGTGCTCTTGAAGCTTGGTCCGCTTGTCAAACGGGATATGTTTGTGGCCCTGGATGGCAG
 TAGTACTAACTATTACGATGCCTGTCATGGGAAGGGCC**TAA**

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001289646
- 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001289646.1](#), [NP_001276575.1](#)

RefSeq Size: 3052 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 β 1-3Gal β 1-3Gal β 1-4Xyl β 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 (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3 and 4 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.