

Product datasheet for **RN206409**

Pxylp1 (NM_001007710) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pxylp1 (NM_001007710) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pxylp1
Synonyms:	Acpl2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN206409 representing NM_001007710
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTTTACCGCAATCGTTCTTGGTGCTGCTGGCCCTGGCTGGGCTGCTGGCTTTCCTGAGCCTCAGCC
 TGCAGTTCCTTTCATCTGATCCCAGTGCCACCACAAGAATGGCGGAAGCAGCAAGAGCCGGAAGAGGAT
 CATGCCTGACCCAGTGACAGAGCCCCACGGTAGACCCGGTCTATGAAGCTCTTCTGTACTGCAACATT
 CCGAGTGTAGCCGAGCACAGCATGGAAGGTCATGCCCCGCATCATTATAAGCTGGTCTCCGTTACAGTGT
 TCATCCGCCATGGGGACAGGTACCCACTGTATGCCATTCCAAAACGAAGCGGCCAGAAATCGACTGCAC
 TCTAGTGGCCAGCAGGAAGCCATATCACCTAACTGGAAGCTTTCGTTGGTCACATGCTGAAAGTTCC
 GGAGCCTCTTTGAAAGCCCTTAGGTTCCCTGCCTCTCTATCCTAACCATCCTGTGTGAGATGGGG
 AGCTCACGCAGACAGGAGTCGTGCAGCATCTGCAGAATGGCCAGCTGCTGAGGGACATCTATCTGAGGAA
 ACACAAGCTTCTGCCGAACAACCTGGTCCCTCAGACCAGCTTACCTAGAGACCACGGGGAAGAGCCGACC
 CTGCAGAGTGGGCTAGCCTTGCTCTATGGCTTCCCTCCAGAGTTCGACTGGAAGAAGGTCTACTTCAAGC
 ACCAACCAAGTGCTCTGTTCTGCTCTGGAAGTCTACTGCCCGCTAAGAAACAGTATCTGGAGAAGGA
 ACAGCGACGCCAGTACCTGCTCCGTCTGAAGAACAGCGACCTAGAGAGGACCTACGGGGAGATGGCCAAG
 ATCGTGGACATCCCCACCAAGCAGCTCCGGGCGGCCAACCCATCGACTCCATGCTCTGCCACTTCTGCC
 ACAATGTCAGTTCCTCCCTGCAGCAGAAGTGGTGCCTTGGCATGGAGCACTTTAAGGTGATCAAGACGCA
 CCAGATAGAGGATGAGCGAGAGAGGCACGAGAAGCTCCTGTACTTTGGTACTCCCTCCTCGGGGCCAC
 CCCATCCTGAATCAGACGGTTAACCGGATGCAGCGCGCTGCCTTGGGCTGGAGGGACGAGCTGTTACCC
 TCTACTCTGCTCAGCAGCTCACCTGTACCCATCCTCAGTGCCTTGGGCTTTTGGAGCCAGGTTCCC
 AAGGTTTGTCTGCCAGGCTGGTTTTTGTAGCTCTGGCAAGACCGTCAAAGCCAGCGAGCATTCCGTCCGG
 ATTCTTTATAATGGGGCTGACGTACCTCCACACCTCCTTCTGCCATGACTTCCACAAGCACTCTCCCA
 AGCCCATGTGCTCTGGAGAACTTGGTCCGCTTGTCAAAGGGATATGTTGTAGCCCTGGATGGCAG
 CAGTACTAACTATTACGATGCATGCCACGGGAAGGGCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001007710
- 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_001007710.1](#), [NP_001007711.1](#)

RefSeq Size: 2859 bp

RefSeq ORF: 1443 bp

Locus ID: 315939

UniProt ID: [Q66H78](#)

Cytogenetics: 8q31

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]