

Product datasheet for **RC213267**

ACPL2 (PXYLP1) (NM_001037172) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACPL2 (PXYLP1) (NM_001037172) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACPL2
Synonyms:	ACPL2; HEL124; XYLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213267 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTTTCCGCAACCGCTTCTTGTCTGCTGCTGGCCCTGGCTGCGCTGCTGGCCTTTGTGAGCCTCAGCC
 TGCAGTTCCTCCACCTGATCCCGGTGTCGACTCCTAAGAATGGAATGAGTAGCAAGAGTCGAAAGAGAAT
 CATGCCCGACCCTGTGACGGAGCCCCCTGTGACAGACCCCGTTTATGAAGCTCTTTTGTACTGCAACATC
 CCCAGTGTGGCCGAGCGCAGCATGGAAGGTCATGCCCCGCATCATTTAAGCTGGTCTCAGTGCATGTGT
 TCATTCGCCACGGAGACAGGTACCCACTGTATGTCATTCCAAAACAAAGCGACCAGAAATTGACTGCAC
 TCTGGTGGCTAACAGGAAACCGTATCACCCAAACTGGAAGCTTTCATTAGTCACATGTCAAAGGATCC
 GGAGCCTCTTTCGAAAGCCCTTGAACCTCTTGCCTCTTACCCAAATCACCCATTGTGTGAGATGGGAG
 AGCTCACACAGACAGGAGTTGTGCAGCATTTGCAGAACGGTCAGCTGCTGAGGGATATCTATCTAAAGAA
 ACACAACTCCTGCCAATGATTGGTCTGCAGACCAGCTCTATTTAGAGACCACTGGGAAAAGCCGGACC
 CTACAAAGTGGGCTGGCCTTGCTTATGGCTTCTCCAGATTTGACTGGAAGAAGATTTATTTACGGC
 ACCAGCCAAGTGCCTGTTCTGCTCTGGAAGCTGCTATTGCCCGGTAAGAAACAGTATCTGAAAAGGA
 GCAGCGTCGTAGTACCTCCTACGTTTAAAAACAGCCAGCTGGAGAAGACCTACGGGGAGATGGCCAAG
 ATCGTGGATGTCCCACCAAGCAGCTTAGAGCTGCCAACCCCATAGACTCCATGCTCTGCCACTTCTGCC
 ACAATGTCAGCTTTCCCTGTACCAGAAATGGCTGTGTTGACATGGAGCACTTCAAGGTAATTAAGACCCA
 TCAGATCGAGGATGAAAGGGAAGACGGGAGAAGAAATTTACTTTGGGTATTCTCTCTGGGTGCCAC
 CCCATCTGAACCAACCATCGCCGGATGCAGCGTCCACCCGAGGCAGGAAAGAAGAGCTCTTTGCC
 TCTACTCTGCTCATGATGTCCTGTCAACAGTTCTCAGTGCCTTGGCCTTTTGAAGCCAGGTTCC
 AAGGTTTGCAGCCAGTTGATCTTTGAGCTTTGGCAAGACAGAGAAAAGCCAGTGAACATTCCGTCGGG
 ATTCTTTACAATGGCGTCGATGTCACATTCCACACCTCTTCTGCCAAGACCACCAAGCGTTCTCCCA
 AGCCCATGTGCCCGCTTGAACCTTGGTCCGCTTTGTGAAAAGGACATGTTTGTAGCCCTGGTGGCAG
 TGGTACAAATTATTATGATGCATGTCACAGGGAAGGATTC

**ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>RC213267 protein sequence
 Red=Cloning site Green=Tags(s)

MLFRNRLLLLLALAALLAFVLSLQFFHLIPVSTPKNGMSSKSRKRIMPDPVTEPPVTPDVPVEALLYCN
 PSVAERSMEGHAPHHFKLVSVHVFIRHGDYRPLVYIPKTKRPEIDCTLVANRKPYPKLEAFISHMSKGS
 GASFESPLNSLPLYPNHPLCEMGELETQTGVVQHLQNGQLLRDIYLLKHKLLPNDWSADQLYLETTGKSRT
 LQSGLALLYGFLPDFDWKKIYFRHQPSALFCSGSCYCPVRNQYLEKEQRRQYLLRLKNSQLEKTYGEMAK
 IVDVPTKQLRAANPIDSMCHFNVSFPCTRNGCVDMEHFVKIKTHQIEDERERREKLYFGYSLLGAH
 PILNQTIGRMQRATEGRKEELFALYSAHDVTLSPVLSALGLSEARFPRFAARLIFELWQDREKPEHSVR
 ILYNGVDVTFHTSFCQDHHKRSPKPMCPLENLVRVVKRDMFVALGGSGTNYDACHREGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6337_h09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001037172

ORF Size: 1440 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001037172.3](#)
RefSeq Size: 3281 bp

RefSeq ORF: 1443 bp

Locus ID: 92370

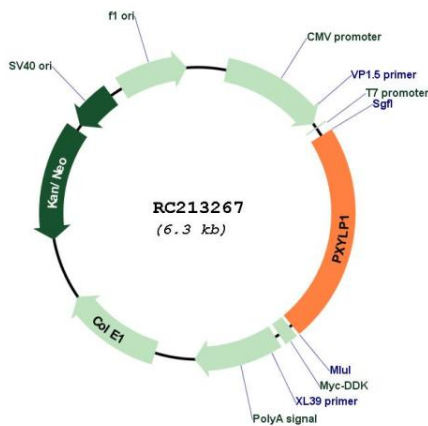
UniProt ID: [Q8TE99](#)
Cytogenetics: 3q23

Protein Families: Transmembrane

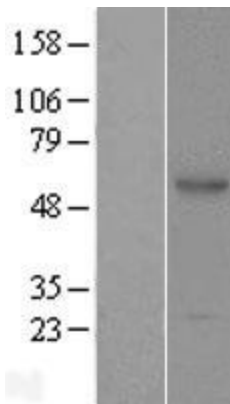
MW: 55.2 kDa

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]

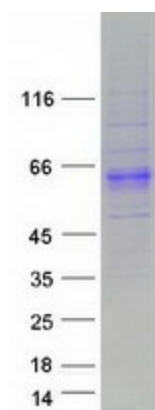
Product images:



Circular map for RC213267



Western blot validation of overexpression lysate (Cat# [LY421929]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213267 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PXYLP1 protein (Cat# [TP313267]). The protein was produced from HEK293T cells transfected with PXYLP1 cDNA clone (Cat# RC213267) using MegaTran 2.0 (Cat# [TT210002]).