

## Product datasheet for **RG213267**

### 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:	TurboGFP
Symbol:	ACPL2
Synonyms:	ACPL2; HEL124; XYLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG213267 representing NM\_001037172  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTTTTCCGCAACCGCTTCTTGTCTGCTGCTGGCCCTGGCTGCGCTGCTGGCCTTTGTGAGCCTCAGCC  
 TGCAGTTCCTCCACCTGATCCCGGTGTCGACTCCTAAGAATGGAATGAGTAGCAAGAGTCGAAAGAGAAT  
 CATGCCCGACCCTGTGACGGAGCCCCCTGTGACAGACCCCGTTTATGAAGCTCTTTTGTACTGCAACATC  
 CCCAGTGTGGCCGAGCGCAGCATGGAAGGTCATGCCCGCATCATTTAAGCTGGTCTCAGTGCATGTGT  
 TCATTCGCCACGGAGACAGGTACCCACTGTATGTCATTCCAAAACAAAGCGACCAGAAATTGACTGCAC  
 TCTGGTGGCTAACAGGAAACCGTATCACCCAAACTGGAAGCTTTCATTAGTCACATGTCAAAGGATCC  
 GGAGCCTCTTTCGAAAGCCCTTGAACCTCTTGCCTCTTACCCAAATCACCCATTGTGTGAGATGGGAG  
 AGCTCACACAGACAGGAGTTGTGCAGCATTTGCAGAACGGTCAGCTGCTGAGGGATATCTATCTAAAGAA  
 ACACAACTCCTGCCAATGATTGGTCTGCAGACCAGCTCTATTTAGAGACCACTGGGAAAAGCCGGACC  
 CTACAAAGTGGGCTGGCCTTGCTTTATGGCTTCTCCAGATTTGACTGGAAGAAGATTTATTTACGGC  
 ACCAGCCAAGTGCCTGTTCTGCTCTGGAAGCTGCTATTGCCCGGTAAGAAACAGTATCTGAAAAGGA  
 GCAGCGTCGTCAGTACCTCCTACGTTTAAAAACAGCCAGCTGGAGAAGACCTACGGGGAGATGGCCAAG  
 ATCGTGGATGTCCCACCAAGCAGCTTAGAGCTGCCAACCCCATAGACTCCATGCTCTGCCACTTCTGCC  
 ACAATGTCAGCTTTCCCTGTACCAGAAATGGCTGTGTTGACATGGAGCACTTCAAGGTAATTAAGACCCA  
 TCAGATCGAGGATGAAAGGGAAGACGGGAGAAGAAATGTACTTTGGGTATTCTCTCTGGGTGCCAC  
 CCCATCTGAACCAACCATCGCCGGATGCAGCGTGCCACCGAGGGCAGGAAAGAAGAGCTCTTTGCC  
 TCTACTGCTCATGATGTCACCTGTCCAGTTCTCAGTGCCTTGGCCTTTCAGAAGCCAGGTGCC  
 AAGGTTTGCAGCCAGTTGATCTTTGAGCTTTGGCAAGACAGAGAAAAGCCAGTGAACATTCCGTCGGG  
 ATTCTTTACAATGGCGTCGATGTCACATTCCACACCTCTTCTGCCAAGACCACCAAGCGTTCTCCCA  
 AGCCCATGTGCCCGCTTAAAACTTGGTCCGCTTTGTGAAAAGGACATGTTTGTAGCCCTGGGTGGCAG  
 TGGTACAAATTATTATGATGCATGTCACAGGGAAGGATTC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG213267 representing NM\_001037172  
 Red=Cloning site Green=Tags(s)

MLFRNRFLLLLALAALLAFVSLSLQFFHLIPVSTPKNGMSSKSRKRIMPDPVTEPPVTDVPVYEALLYCNI  
 PSVAERSMEGHAPHHFKLVSVHVFIRHGDRYPLVYIPKTKRPEIDCTLVANRKPYPHKLEAFISHMSKGS  
 GASFESPLNSLPLYPNHPLCEMGELETQTGVVQHLQNGQLLRDIYLLKHKLLPNDWSADQLYLETTGKSRT  
 LQSGLALLYGFLPDFDWKKIYFRHQPSALFCSGSCYCPVRNQYLEKEQRRQYLLRLKNSQLEKTYGEMAK  
 IVDVPTKQLRAANPIDSM LCHFCHNVSPCTRNGCVDMEHFVKIKTHQIEDERERREKLYFGYSLLGAH  
 PILNQTI GRMQRATEGRKEELFALYSAHDVTLSPVLSALGLSEARFPRFAARLIFELWQDREKPSSEHSVR  
 ILYNGVDVTFHTSFQDHHKRSPKPMCPLENLVRVVKRDMFVALGGSGTNYDACHREGF

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**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:** 3024 bp

**RefSeq ORF:** 1443 bp

**Locus ID:** 92370

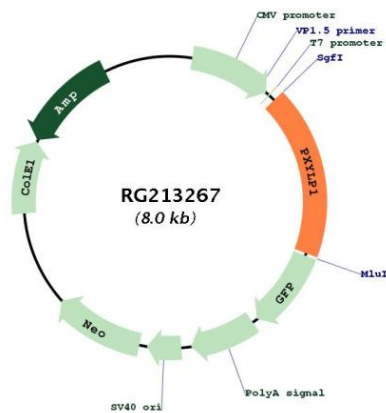
**UniProt ID:** [Q8TE99](#)

**Cytogenetics:** 3q23

**Protein Families:** Transmembrane

**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 (GlcUAβ1-3Galβ1-3Galβ1-4Xylβ1-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 RG213267