

Product datasheet for **RG207863**

ACPL2 (PXYLP1) (NM_152282) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACPL2 (PXYLP1) (NM_152282) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PXYLP1
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:

>RG207863 representing NM_152282
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCTTTTCCGCAACCGCTTCTTGTCTGCTGCTGGCCCTGGCTGCGCTGCTGGCCTTTGTGAGCCTCAGCC
 TGCAGTTCCTCCACCTGATCCCGGTGTCGACTCCTAAGAATGGAATGAGTAGCAAGAGTCGAAAGAGAAT
 CATGCCCGACCCTGTGACGGAGCCCCCTGTGACAGACCCCGTTTATGAAGCTCTTTTGTACTGCAACATC
 CCCAGTGTGGCCGAGCGCAGCATGGAAGGTCATGCCCGCATCATTTAAGCTGGTCTCAGTGCATGTGT
 TCATTCGCCACGGAGACAGGTACCCACTGTATGTCATTCCAAAACAAAGCGACCAGAAATTGACTGCAC
 TCTGGTGGCTAACAGGAAACCGTATCACCCAAACTGGAAGCTTTCATTAGTCACATGTCAAAGGATCC
 GGAGCCTCTTTCGAAAGCCCTTGAACCTCTTGCCTCTTACCCAAATCACCCATTGTGTGAGATGGGAG
 AGCTCACACAGACAGGAGTTGTGCAGCATTTGCAGAACGGTCAGCTGCTGAGGGATATCTATCTAAAGAA
 ACACAACTCCTGCCAATGATTGGTCTGCAGACCAGCTCTATTTAGAGACCACTGGGAAAAGCCGGACC
 CTACAAAGTGGGCTGGCCTTGCTTATGGCTTCTCCAGATTTGACTGGAAGAAGATTTATTTACAGGC
 ACCAGCCAAGTGCCTGTTCTGCTCTGGAAGCTGCTATTGCCCGGTAAGAAACAGTATCTGAAAAGGA
 GCAGCGTCGTAGTACCTCCTACGTTTAAAAACAGCCAGCTGGAGAAGACCTACGGGGAGATGGCCAAG
 ATCGTGGATGTCCCACCAAGCAGCTTAGAGCTGCCAACCCCATAGACTCCATGCTCTGCCACTTCTGCC
 ACAATGTCAGCTTTCCCTGTACCAGAAATGGCTGTGTTGACATGGAGCACTTCAAGGTAATTAAGACCCA
 TCAGATCGAGGATGAAAGGGAAGACGGGAGAAGAAATTTACTTTGGGTATTCTCTCTGGGTGCCAC
 CCCATCTGAACCAACCATCGCCGGATGCAGCGTCCACCCGAGGGCAGGAAAGAAGAGCTCTTTGCC
 TCTACTGCTCATGATGTCACCTGTCCAGTCTCAGTGCCTTGGCCTTTCAGAAGCCAGGTCC
 AAGGTTTGCAGCCAGTTGATCTTTGAGCTTTGGCAAGACAGAGAAAAGCCAGTGAACATTCCGTCGGG
 ATTCTTTACAATGGCGTCGATGTCACATTCCACACCTCTTCTGCCAAGACCACCAAGCGTTCTCCCA
 AGCCCATGTGCCCGCTTAAAACTTGGTCCGCTTGTGAAAAGGGACATGTTTGTAGCCCTGGGTGGCAG
 TGGTACAAATTATTATGATGCATGTCACAGGGAAGGATTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207863 representing NM_152282
 Red=Cloning site Green=Tags(s)

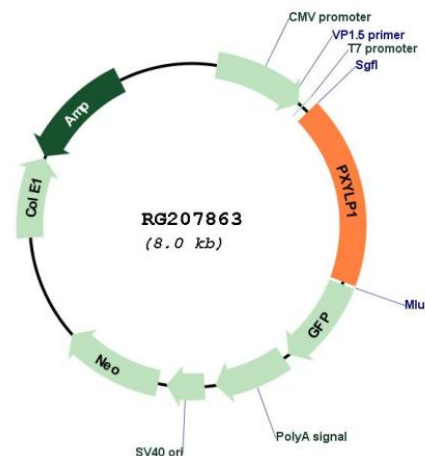
MLFRNRLLLLLALAALLAFVSLSLQFFHLIPVSTPKNGMSSKSRKRIMPDPVTEPPVTDVPVYEALLYCNI
 PSVAERSMEGHAPHHFKLVSVHVFIRHGDRYPLVYIPKTKRPEIDCTLVANRKPYPHKLEAFISHMSKGS
 GASFESPLNSLPLYPNHPLCEMGELETQTGVVQHLQNGQLLRDIYLLKHKLLPNDWSADQLYLETTGKSRT
 LQSGLALLYGFLPDFDWKKIYFRHQPSALFCSGSCYCPVRNQYLEKEQRRQYLLRLKNSQLEKTYGEMAK
 IVDVPTKQLRAANPIDSMLECHFNVSFPCTRNGCVDMEHFVKIKTHQIEDERERREKLYFGYSLLGAH
 PILNQTIGRMQRATEGRKEELFALYSAHDVTLSPVLSALGLSEARFPRFAARLIFELWQDREKPSSEHSVR
 ILYNGVDVTFHTSFCQDHHKRSPKPMCPLENLVRVFKRDMFVALGGSGTNYDACHREGF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_152282

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_152282.3](#), [NP_689495.1](#)

RefSeq Size: 3198 bp

RefSeq ORF: 1443 bp

Locus ID: 92370

UniProt ID: [Q8TE99](#)

Cytogenetics: 3q23

Domains: acid_phosphat

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 (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]