OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG238259

ACPL2 (PXYLP1) (NM_001282728) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACPL2 (PXYLP1) (NM_001282728) 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)

ORF Nucleotide Sequence:

>RG238259 representing NM_001282728.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGTAGCAAGAGTCGAAAGAGAATCATGCCCGACCCTGTGACGGAGCCCCCTGTGACAGACCCCGTT
TATGAAGCTCTTTTGTACTGCAACATCCCCAGCGTGGCCGAGCGCAGCATGGAAGGTCATGCCCCGCAT
CATTTTAAGCTGGTCTCAGTGCATGTGTTCATTCGCCACGGAGACAGGTACCCACTGTATGTCATTCCC
AAAACAAAGCGACCAGAAATTGACTGCACTCTGGTGGCTAACAGGAAACCGTATCACCCAAAACTGGAA
GCTTTCATTAGTCACATGTCAAAAGGATCCGGAGCCTCTTTCGAAAGCCCCTTGAACTCCTTGCCTCTT
TACCCAAATCACCCATTGTGTGAGATGGGAGAGCTCACACAGACAGGAGTTGTGCAGCATTTGCAGAAC
GGTCAGCTGCTGAGGGATATCTATCTAAAGAAACACAAACTCCTGCCCAATGATTGGTCTGCAGACCAG
CTCTATTTAGAGACCACTGGGAAAAGCCGGACCCTACAAAGTGGGCTGGCCTTGCTTTATGGCTTTCTC
CCAGATTTTGACTGGAAGAAGATTTATTTCAGGCACCAGCCAAGTGCGCTGTTCTGCTCTGGAAGCTGC
TATTGCCCGGTAAGAAACCAGTATCTGGAAAAGGAGCAGCGTCGTCAGTACCTCCTACGTTTGAAAAAC
AGCCAGCTGGAGAAGACCTACGGGGAGATGGCCAAGATCGTGGATGTCCCCACCAAGCAGCTTAGAGCT
GCCAACCCCATAGACTCCATGCTCTGCCACTTCTGCCACAATGTCAGCTTTCCCTGTACCAGAAATGGC
TGTGTTGACATGGAGCACTTCAAGGTAATTAAGACCCATCAGATCGAGGATGAAAGGGAAAGACGGGAG
AAGAAATTGTACTTCGGGTATTCTCTCCTGGGTGCCCACCCCATCCTGAACCAAACCATCGGCCGGATG
CAGCGTGCCACCGAGGGCAGGAAAGAAGAGCTCTTTGCCCTCTACTCTGCTCATGATGTCACTCTGTCA
CCAGTTCTCAGTGCCTTGGGCCTTTCAGAAGCCAGGTTCCCAAGGTTTGCAGCCAGGTTGATCTTTGAG
CTTTGGCAAGACAGAGAAAAGCCCAGTGAACATTCCGTCCGGATTCTTTACAATGGCGTCGATGTCACA
TTCCACACCTCTTTCTGCCAAGACCACCACAAGCGTTCTCCCAAGCCCATGTGCCCGCTTGAAAACTTG
GTCCGCTTTGTGAAAAGGGACATGTTTGTAGCCCTGGGTGGCAGTGGTACAAATTATTATGATGCATGT
CACAGGGAAGGATTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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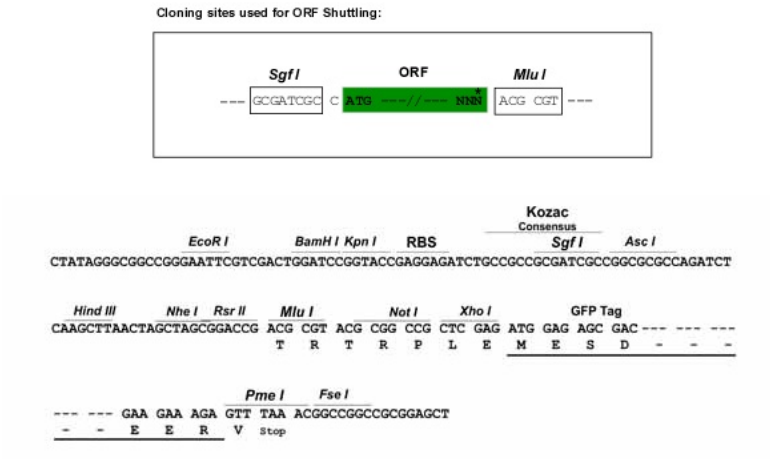
Protein Sequence:

>Peptide sequence encoded by RG238259
Blue=ORF Red=Cloning site Green=Tag(s)

MSSKSRKRIMPDPVTEPPVTDPVYEALLYCNIPSVAERSMEGHAPHHFKLVSVHVFIRHGDRYPLYVIP
KTKRPEIDCTLVANRKPYHPKLEAFISHMSKGSGASFESPLNSLPLYPNHPLCEMGELTQTGVVQHLQN
GQLLRDIYLKKHKLLPNDWSADQLYLETTGKSRTLQSGLALLYGFLPDFDWKKIYFRHQPSALFCSGSC
YCPVRNQYLEKEQRRQYLLRLKNSQLEKTYGEMAKIVDVPTKQLRAANPIDSMLCHFCHNVSFPCTRNG
CVDMEHFKVIKTHQIEDERERREKKLYFGYSLLGAHPILNQTIGRMQRATEGRKEELFALYSAHDVTLS
PVLSALGLSEARFPRFAARLIFELWQDREKPSEHSVRILYNGVDVTFHTSFCQDHHKRSPKPMCPLENL
VRFVKRDMFVALGGSGTNYYDACHREGF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001282728

ORF Size: 1326 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

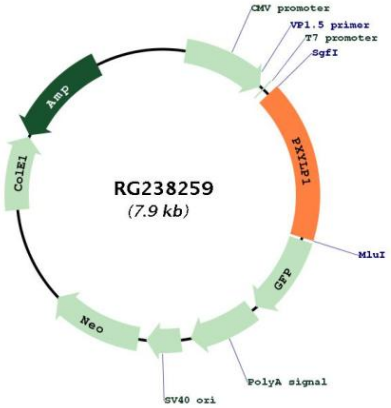
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

RefSeq: NM_001282728.1, NP_001269657.1

RefSeq Size:	3379 bp
RefSeq ORF:	1329 bp
Locus ID:	92370
UniProt ID:	Q8TE99
Cytogenetics:	3q23
Protein Families:	Transmembrane
MW:	51.4 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 (GlcUAbeta1-3Galbeta1-3Galbeta1-4Xylbeta1-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 RG238259