

Product datasheet for RC238259

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:	Myc-DDK
Symbol:	PXYLP1
Synonyms:	ACPL2; HEL124; XYLP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238259 representing NM_001282728 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGTAGCAAGAGTCGAAAGAGAATCATGCCCGACCCTGTGACGGAGCCCCCTGTGACAGACCCCGTTT
ATGAAGCTCTTTTGTACTGCAACATCCCCAGCGTGGCCGAGCGCAGCATGGAAGGTCATGCCCGCATCA
TTTTAAGCTGGTCTCAGTGCATGTGTTTCATTCGCCACGGAGACAGGTACCCACTGTATGTCATTCACAA
ACAAAGCGACCAGAAATTGACTGCACTCTGGTGGCTAACAGGAAACCGTATCACCCAAAACCTGGAAGCTT
TCATTAGTCACATGTCAAAGGATCCGGAGCCTCTTTCGAAAGCCCTTGAACCTCTTGCCCTTTTACCC
AAATCACCCATTGTGTGAGATGGGAGAGCTCACACAGACAGGAGTTGTGCAGCATTTGCAGAACGGTCAG
CTGCTGAGGGATATCTATCTAAAGAAACACAACTCCTGCCCAATGATTGGTCTGCAGACCAGCTCTATT
TAGAGACCACTGGGAAAAGCCGGACCCTACAAAGTGGGCTGGCCTTGCTTTATGGCTTTCTCCAGATTT
TGACTGGAAGAAGATTTATTTAGGCACCAGCCAAGTGCCTGTCTGCTCTGGAAGCTGCTATTGCCCG
GTAAGAAACCAGTATCTGAAAAGGAGCAGCGTCGTAGTACCTCCTACGTTTGAAAAACAGCCAGCTGG
AGAAGACCTACGGGAGATGGCCAAGATCGTGGATGTCCCACCAAGCAGCTTAGAGCTGCCAACCCCAT
AGACTCCATGCTCTGCCACTTCTGCCACAATGTCAGCTTTCCCTGTACCAGAAATGGCTGTGTTGACATG
GAGCACTTCAAGGTAATTAAGACCCATCAGATCGAGGATGAAAGGGAAAGACGGGAGAAGAAATTGACT
TCGGGTATTCTCTCCTGGGTGCCACCCCATCCTGAACCAAAACATCGGCCGGATGCAGCGTGCCACCGA
GGGCAGGAAAGAAGAGCTCTTTGCCCTCTACTCTGCTCATGATGTCACCTGTCCAGTTCTCAGTGCC
TTGGGCCCTTTCAGAAGCCAGGTTCCCAAGTTTGCAGCCAGGTTGATCTTTGAGCTTTGGCAAGACAGAG
AAAAGCCAGTGAACATTCGGTCCGGATTCTTTACAATGGCGTCGATGTCACATTCCACACCTCTTTCTG
CCAAGACCACCACAAGCGTTCTCCCAAGCCATGTGCCCGTTGAAAACCTGGTCCGCTTTGTGAAAAGG
GACATGTTGTAGCCCTGGGTGGCAGTGGTACAAATTATTATGATGCATGTCACAGGGAAGGATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC238259 representing NM_001282728
Red=Cloning site Green=Tags(s)

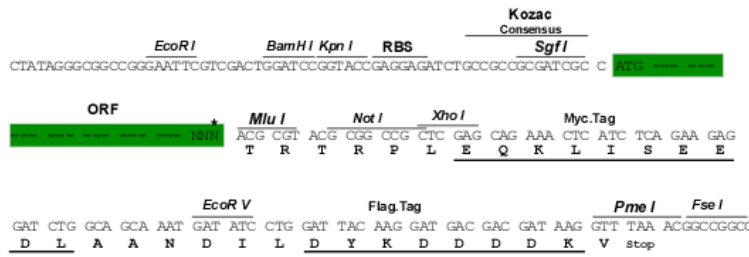
MSSKSRKRIMDPVTEPPVTPDVPVEALL YCNIP SVAERSMEGHAPHHFKLVSVHVFIRHGD RYPL YVIPK
 TKRPEIDCTLVANRKPYPHPKLEAFISHMSKGGSGASFESPLNSLPLYPNHPLCEMGETQTGVVQHLQNGQ
 LLRDIYLKHKLLPNDWSADQLYLETTGKSRTLQSGLALLYGF LPDFDWKKIYFRHQPSALFCSGSCYCP
 VRNQYLEKEQRRQYLLRLKNSQLEKTYGEMAKIVDVPTKQLRAANPIDSM LCHFCHNVSPCTRNGCVDM
 EHFVKVIKTHQIEDERERREKLYFGYSLLGAHPILNQTIGRMQRATEGRKEELFALYSAHDVTLSPVLSA
 LGLSEARFPRFAARLIFELWQDREKPSHSVRILYNGVDVTFHTSFCQDHHKRSPKPMCPLENLVRVVKR
 DMFVALGGSGTNYDACHREGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:
Cloning Scheme:

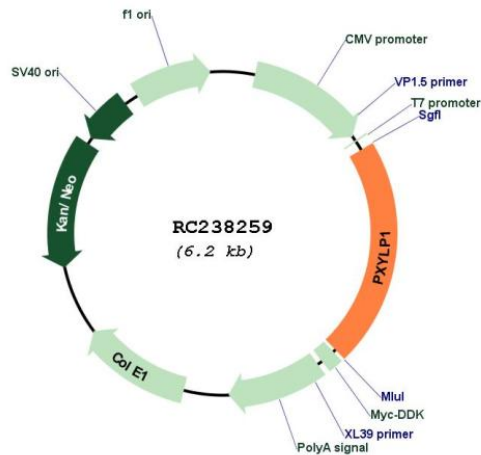
SgfI-MluI

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



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).
Reconstitution Method:	<ol style="list-style-type: none">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_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 (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]