

Product datasheet for **SC119167**

Alkaline Phosphatase (ALPP) (NM_001632) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alkaline Phosphatase (ALPP) (NM_001632) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALPP
Synonyms:	ALP; ALPI; IAP; PALP; PLAP; PLAP-1
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >OriGene ORF within SC119167 sequence for NM_001632 edited (data generated by NextGen Sequencing)

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ATGCTGGGGCCCTGCATGCTGCTGCTGCTGCTGCTGCTGGGCCTGAGGCTACAGCTCTCC
CTGGGCATCATCCCAGTTGAGGAGGAGAACCCGGACTTCTGGAACCGCGAGGCAGCCGAG
GCCCTGGGTGCCCAAGAAGCTGCAGCCTGCACAGACAGCCCAAGAACCTCATCATC
TTCTGGGCGATGGGATGGGGGTGTCTACGGTGACAGCTGCCAGGATCCTAAAAGGGCAG
AAGAAGGACAAACTGGGGCCTGAGATAACCCCTGGCCATGGACCGTTCCCATATGTGGCT
CTGTCCAAGACATACAATGTAGACAAACATGTGCCAGACAGTGGAGCCACAGCCACGGCC
TACCTGTGCGGGGTCAAGGGCAACTTCCAGACCATTGGCTTGAGTGCAGCCGCCCTTT
AACCAGTGCAACACGACACGCGGCAACGAGGTCATCTCCGTGATGAATCGGGCCAAGAAA
GCAGGGAAGTCAGTGGGAGTGGTAACCACCACACGAGTGCAGCACGCCTCGCCAGCCGGC
ACCTACGCCACACGGTGAACCGCAACTGGTACTCGGACGCCGACGTGCCTGCCTCGGCC
CGCCAGGAGGGGTGCCAGGACATCGCTACGACGCTCATCTCCAACATGGACATTGACGTG
ATCCTAGTGGAGGCCAAAAGTACATGTTTCGCATGGGAACCCAGACCCTGAGTACCCA
GATGACTACAGCCAAGGTGGGACCAGGCTGGACGGGAAGAATCTGGTGCAGGAATGGCTG
GGGAAGGCCAGGGTGCCTGGTATGTGTGGAACCGCACTGAGCTCATGCAGGCTTCCCTG
GACCCGTCTGTGACCCATCTCATGGGTCTCTTTGAGCCTGGAGACATGAAATACGAGATC
CACCGAGACTCCACACTGGACCCCTCCCTGATGGAGATGACAGAGGCTGCCCTGCGCCTG
CTGAGCAGGAACCCCGCGGCTTCTTCTCTTCTGAGGGTGGTTCGCATCGACCATGGT
CATCATGAAAGCAGGGCTTACCGGGCACTGACTGAGACGATCATGTTTCGACGACGCCATT
GAGAGGGCGGGCCAGCTCACCAGCGAGGAGGACACGCTGAGCCTCGTCACTGCCGACCAC
TCCCACGTCTTCTCCTTTCGGAGGCTACCCCTGCGAGGGAGCTCCATCTTCGGGTGGCC
CCTGGCAAGGCCCGGACAGGAAGGCCTACACGGTCTCTCTATACGGAACCGTCCAGGC
TATGTGCTCAAGGACGGCGCCCGGATGTTACCGAGAGCGAGAGCGGGAGCCCGGAG
TATCGGCAGCAGTCAGCAGTGCCCTGGACGAAGAGACCCACGCAGGCGAGGACGTGGCG
GTGTTTCGCGCGGGCCCGCAGGCGCACCTGGTTCACGGCGTGCAGGAGCAGACCTTCATA
GCGCACGTGATGGCCTTCGCGCCTGCCTGGAGCCCTACACCGCCTGCGACCTGGCGCC
CCCGCCGGCACCACCGACCCGCGCACCCGGGGCGGTCCGTGGTCCCGCGTTGCTTCT
CTGCTGGCCGGGACCCTGCTGCTGCTGGAGACGGCCACTGCTCCCTGA
    
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Clone variation with respect to NM_001632.3
597 c=>g

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_001632 unedited
NGAGTTAGCATTGTATCCGACTCCTATAGGCGGCCGCGCAATTCGCACGAGCTCATACT
CCATGCCANAAATTCCTGCCTCGCCACTGTCTGCTGCCCTCCAGACATGCTGGGGCCCT
GCATGCTGCTGCTGCTGCTGCTGCTGGGCTGAGGCTACAGCTCTCCCTGGGCATCATCC
CAGTTGAGGAGGAGAACCCGGACTTCTGGAACCGCGAGGCAGCCGAGGCCCTGGGTGCCG
CCAAGAAGCTGCAGCCTGCACAGACAGCCGCAAGAACCTCATCATCTTCTGGGCGATG
GGATGGGGGTGTCTACGGTGACAGCTGCCAGGATCCTAAAAGGGCAGAAGAAGGACAAA
TGGGGCTGAGATACCCCTGGCCATGGACCGCTTCCCATATGTGGCTCTGTCCAAGACAT
ACAATGTAGACAAACATGTGCCAGACAGTGGAGCCACAGCCACGGCCTACCTGTGCGGGG
TCAAGGGCAACTTCCAGACCATTGGCTTGAGTGCAGCCGCCGCTTTAACCAAGTGAACA
CGACACGCGGCAACGAGGTATCTCCGTGATGAATCGGGCCAAGAAAGCAGGGAAGTCAG
TGGGAGTGGTAACCACCACACGAGTGCAGCACGCCTCGCCAGCCGGCACCTACGCCACA
CGGTGAACCGCAACTGGTACTNCGACGCCGACGTGCCTGCCTCGGCCCGCCAGGAGGT
GCCANGACATCGTACGCAGCTCATCTCCACATGGACATTGACGTGATCCCTAGTGGGA
GCCGANAGTACATGTTTCGCATGGGAACNCAGACCCTGAGTACCCAGATGACTACAGCC
CAAGTGGNACCAGNCTGNACGGNAGAAATCTGTGCAGNAATGGCTGNCGAANCCCGAGG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001632 unedited CATTGGCGATGGCACTTCCAGGNCCAGNATAGGCACTGGGTGAGGGTCACAGGGCTGCCA CCCCGGATCTGTTTCAGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTT TTTTTTTTTTTATTATTTATTTATTTTAAAAATTTATTTGTTTATTTTGGAGCAGAATC TCGCTCTGTGCCCCAGGCTGCAGTGCAGTGGCATGACCTCGGCTCACTGCAATCTCCGCC GCCCGGTTCAAGCGATTATCCTGCTTCAGCCTCCTGGTAGCTGGGACTACAGGCGCAT AGATAAGGGGTTTACCCTGTTATCCTAGATGGTCTCCTTCTCCTGACCTATGGTTCCGC TTACTTTTGTCTCGAAAAGTGCTGGGATTACAAACACTTCTTTTATTATTGCTTTGTC TCCAAGAGAGCAGATGCCCTGGGGAGGCAGGGGAGTCTTCTTCTTGAGAAATCTATGC CCAGTGTCCATATGTCTGGAGAGGGACCTTTGGCTCTCGACCAGTGTCTGCACCCAGGG CTTCCCAGGAGCTCCTCGGATCTCAGTTGGGTGCTGAAATTGGCATGTGGAGGTATGGAA CGTCTGANAAGTTGAGATTTGGGGCAAGCCTTTGCCATGAGGCAGAGGGCCCCCTGGGGG GGTACAGGGGTGTGAATTAGCTTAGTGGGGGCGAGCCGAAGGCTGTGTCAAAATCCCCC TGGTGATCCCCACCCAGGAGCCTCCTTGCCAGGAGGGTGGCAAGAAACCACCTTTCC CAAGCCTCCTGAAAATCCCGAGTCTCAGTTCCCACAGTGATTCAGGACTGAACAAAAT TCACGGGCGCGGGTCTGGTTGCTTCTTTTCCAGAAAAGGACCCTGCCTGGACCCTTGG CTTTTAGTGGTGGCTGGATGCCCTGACCCTTCTTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_001632
Insert Size:	2750 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
RefSeq:	NM_001632.2 , NP_001623.2
RefSeq Size:	2747 bp
RefSeq ORF:	1608 bp
Locus ID:	250
UniProt ID:	P05187 , B2R7C7
Domains:	alk_phosphatase
Protein Pathways:	Folate biosynthesis, Metabolic pathways
Gene Summary:	The protein encoded by this gene is an alkaline phosphatase, a metalloenzyme that catalyzes the hydrolysis of phosphoric acid monoesters. It belongs to a multigene family composed of four alkaline phosphatase isoenzymes. The enzyme functions as a homodimer and has a catalytic site containing one magnesium and two zinc ions, which are required for its enzymatic function. One of the main sources of this enzyme is the liver, and thus, it's one of several indicators of liver injury in different clinical conditions. In pregnant women, this protein is primarily expressed in placental and endometrial tissue, however, strong ectopic expression has been detected in ovarian adenocarcinoma, serous cystadenocarcinoma, and other ovarian cancer cells. [provided by RefSeq, Aug 2020]