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Product datasheet for SC303050

Alkaline Phosphatase (ALPI) (NM_001631) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alkaline Phosphatase (ALPI) (NM_001631) Human Untagged Clone
Tag:	Tag Free
Symbol:	Alkaline Phosphatase
Synonyms:	IAP
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_001631 edited
ACTTCGCCTCCCTCCTGCTGCCCCCAAGACATGCAGGGGCCCTGGGTGCTGCTGCTGCTG
GGCCTGAGGCTACAGCTCTCCCTGGGCGTCATCCCAGCTGAGGAGGAGAACCCGGCCTTC
TGGAACCGCCAGGCAGCTGAGGCCCTGGATGCTGCCAAGAAGCTGCAGCCCATCCAGAAG
GTCGCCAAGAACCTCATCCTCTTCCTGGGCGATGGGTTGGGGGTGCCCACGGTGACAGCC
ACCAGGATCCTAAAGGGGCAGAAGAATGGCAAACTGGGGCCTGAGACGCCCCTGGCCATG
GACCGCTTCCCATACCTGGCTCTGTCCAAGACATACAATGTGGACAGACAGGTGCCAGAC
AGCGCAGCCACAGCCACGGCCTACCTGTGCGGGGTCAAGGCCAACTTCCAGACCATCGGC
TTGAGTGCAGCCGCCCGCTTTAACCAGTGCAACACGACACGCGGCAATGAGGTCATCTCC
GTGATGAACCGGGCCAAGCAAGCAGGAAAGTCAGTAGGAGTGGTGACCACCACACGGGTG
CAGCACGCCTCGCCAGCCGGCACCTACGCACACACAGTGAACCGCAACTGGTACTCAGAT
GCTGACATGCCTGCCTCAGCCCGCCAGGAGGGGTGCCAGGACATCGCCACTCAGCTCATC
TCCAACATGGACATTGACGTGATCCTTGGCGGAGGCCGCAAGTACATGTTTCCCATGGGG
ACCCCAGACCCTGAGTACCCAGCTGATGCCAGCCAGAATGGAATCAGGCTGGACGGGAAG
AACCTGGTGCAGGAATGGCTGGCAAAGCACCAGGGTGCCTGGTATGTGTGGAACCGCACT
GAGCTCATGCAGGCGTCCCTGGACCAGTCTGTGACCCATCTCATGGGCCTCTTTGAGCCC
GGAGACACGAAATATGAGATCCACCGAGACCCCACACTGGACCCCTCCCTGATGGAGATG
ACAGAGGCTGCCCTGCGCCTGCTGAGCAGGAACCCCCGCGGCTTCTACCTCTTTGTGGAG
GGCGGCCGCATCGACCATGGTCATCATGAGGGTGTGGCTTACCAGGCACTCACTGAGGCG
GTCATGTTCGACGACGCCATTGAGAGGGCGGGCCAGCTCACCAGCGAGGAGGACACGCTG
ACCCTCGTCACCGCTGACCACTCCCATGTCTTCTCCTTTGGTGGCTACACCTTGCGAGGG
AGCTCCATCTTCGGGTTGGCCCCCAGCAAGGCTCAGGACAGCAAAGCCTACACGTCCATC
CTGTACGGCAATGGCCCGGGCTACGTGTTCAACTCAGGCGTGCGACCAGACGTGAATGAG
AGCGAGAGCGGGAGCCCCGATTACCAGCAGCAGGCGGCGGTGCCCCTGTCGTCCGAGACC
CACGGAGGCGAAGACGTGGCGGTGTTTGCGCGCGGCCCGCAGGCGCACCTGGTGCATGGT
GTGCAGGAGCAGAGCTTCGTAGCGCATGTCATGGCCTTCGCTGCCTGTCTGGAGCCCTAC
ACGGCCTGCGACCTGGCGCCTCCCGCCTGCACCACCGACGCCGCGCACCCAGTTGCCGCG
TCGCTGCCACTGCTGGCCGGGACCCTGCTGCTGCTGGGGGCGTCCGCTGCTCCCTGAGTG
CCCCACTCCGGAGTTATCCTGCTCCCCACCTCCGGGCGTCCTGCCCTGTTCCCCGTCCTG
AGCCGCCACTTCCAGCGAACACACACAGGTGTCCTGCCGTTGGACCTTCACCTCCTAGAG
ATAAACCAGCCTCAGCTGGCGCAGCGGGGCCCTTCTTCCCTCCGCATCCCCTTCAGGGAG
CAGGAGCCCAGGGCGCCCTGGGAGCTGAGCCTGGGACTTCCAGGACCTCCCCTCAGGTTG
TTCTCTGATTCTTCCTCCCAACCCCAGAGACTGCAGATTTGTGCCATGCGGCTGCCTGCA
CCCCAGACAATAAAGGGACCAAAACCACCCAACCCCCACCCTGCCTCTATCCTAAGGAAG
ACCAAGCAGGCCTGGACCCAGAGACGTCCCCCATCGTGGGACACGACACACCCAGACCGC
GTGCCCCACCGTCTTAGCTTCAATCCTGGCAGCACCTGGTAGACCCAAGGACTTGGGTGG
ATCAGGACACCTGAAGAAGAGAAGCTTCCGGCAACCCTGCAACCCACCCAAGGAGGCTAC
TGGATCGGGGATTCCCAGGGGGGCTTTGACACAGTCCTCTGCTGTCTCCCCACTAGGATC
ATTCCACACCCCTGCACCTGACCAAGGGACCAATGAGGC
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Restriction Sites: Please inquire

ACCN: NM_001631

Insert Size: 1587 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).

OTI Annotation: The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by three amino acids.

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_001631.2, NP_001622.1
RefSeq Size:	2516 bp
RefSeq ORF:	1587 bp
Locus ID:	248
UniProt ID:	P09923
Cytogenetics:	2q37.1
Protein Families:	Druggable Genome
Protein Pathways:	Folate biosynthesis, Metabolic pathways
Gene Summary:	There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The intestinal alkaline phosphatase gene encodes a digestive brush-border enzyme. This enzyme is a component of the gut mucosal defense system and is thought to function in the detoxification of lipopolysaccharide, and in the prevention of bacterial translocation in the gut. [provided by RefSeq, Dec 2014]