

## Product datasheet for **SC320807**

### Alkaline Phosphatase (ALPL) (NM\_000478) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Alkaline Phosphatase (ALPL) (NM_000478) Human Untagged Clone
Tag:	Tag Free
Symbol:	Alkaline Phosphatase
Synonyms:	AP-TNAP; APTNAP; HOPS; HPPA; HPPC; HPPI; HPPO; TNALP; TNAP; TNSALP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_000478, the custom clone sequence may differ by one or more nucleotides

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ATGATTTACCATTCTTAGTACTGGCCATTGGCACCTGCCTTACTAACTCCTTAGTGCCAGAGAAAGAGA
AAGACCCCAAGTACTGGCGAGACCAAGCGCAAGAGACACTGAAATATGCCCTGGAGCTTCAGAAGCTCAA
CACCAACGTGGTAAGAATGTCATCATGTTCTGGGAGATGGGATGGGTGTCTCCACAGTGACGGTGCC
CGCATCCTCAAGGTCAGCTCCACCACAACCCTGGGGAGGAGACCAGGCTGGAGATGGACAAGTTCCCTT
TCGTGGCCCTCTCCAAGACGTACAACACCAATGCCAGGTCCTGACAGCGCCGGCACCGCCACCGCCTA
CCTGTGTGGGGTGAAGGCCAATGAGGGCACCGTGGGGTAAGCGCAGCCACTGAGCGTTCCTCCGGTGAAC
ACCACCCAGGGGAACGAGGTCACCTCCATCCTGCGCTGGGCCAAGGACGCTGGGAAATCTGTGGCATTG
TGACCACCAGGAGTGAACCATGCCACCCCAAGCGCCCTACGCCACTCGGCTGACCGGGACTGGTA
CTCAGACAACGAGATGCCCTGAGGCCTGAGCCAGGGCTGTAAGGACATCGCCTACCAGCTCATGCAT
AACATCAGGGACATTGACGTGATCATGGGGGTGGCCGAAATACATGTACCCCAAGAATAAACTGATG
TGGAGTATGAGAGTGACGAGAAAGCCAGGGGCACGAGGCTGGACGCTGGACCTCGTTGACACCTGGAA
GAGCTTCAAACCGAGATACAAGCACTCCCACTTCACTGGAACCGCACGGAACCTCGACCTTGACCCC
CACAATGTGGACTACCTATTGGGTCTCTTCGAGCCAGGGGACATGCAGTACGAGCTGAACAGGAACAACG
TGACGGACCCGCTCACTCTCCGAGATGGTGGTGGGCCATCCAGATCCTGCGGAAGAACCCAAAGGCTT
CTTCTTGTGGTGAAGGAGGCAGAATTGACCAGGGCACCATGAAGGAAAAGCCAAGCAGGCCCTGCAT
GAGGCGGTGGAGATGGACCGGGCCATCGGGCAGGCAGGCAGCTTGACCTCCTCGGAAGCACTCTGACCG
TGGTCACTGCGGACCATTCCCACGTCTTACATTTGGTGGATACACCCCGTGGCAACTCTATCTTTGG
TCTGGCCCCATGCTGAGTGACACAGACAAGAAGCCCTTCACTGCCATCCTGTATGGCAATGGCCCTGGC
TACAAGGTGGTGGCGGTGAACGAGAGAATGTCTCCATGGTGGACTATGCTCACAACAATACCAGGCGC
AGTCTGCTGTGCCCTGCGCCACGAGACCCACGGCGGGGAGGACGTGGCGTCTTCTCCAAGGGCCCAT
GGCGCACCTGCTGCACGGCGTCCACGAGCAAGTACGTCCCCACGTGATGGCGTATGCAGCCTGCATC
GGGGCCAACTCGGCCACTGTGCTCCTGCCAGCTCGGCAGGCAGCCTTGCTGCAGCCCCCTGCTGCTCG
CGCTGGCCCTTACCCCTGAGCGTCTGTTCTGA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_000478
- 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_000478.3](#), [NP\\_000469.3](#)

**RefSeq Size:** 2596 bp

**RefSeq ORF:** 1575 bp

**Locus ID:** 249

**UniProt ID:** [P05186](#)

**Cytogenetics:** 1p36.12

**Domains:** alk\_phosphatase

**Protein Families:** Druggable Genome

**Protein Pathways:** Folate biosynthesis, Metabolic pathways

**Gene Summary:** This gene encodes a member of the alkaline phosphatase family of proteins. There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The first three are located together on chromosome 2, while the tissue non-specific form is located on chromosome 1. The product of this gene is a membrane bound glycosylated enzyme that is not expressed in any particular tissue and is, therefore, referred to as the tissue-nonspecific form of the enzyme. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme may play a role in bone mineralization. Mutations in this gene have been linked to hypophosphatasia, a disorder that is characterized by hypercalcemia and skeletal defects. [provided by RefSeq, Oct 2015]  
Transcript Variant: This variant (1) encodes the longest isoform (1).