

## Product datasheet for **SC311204**

### Acid Phosphatase (ACP1) (NM\_001040649) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acid Phosphatase (ACP1) (NM_001040649) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACP1
Synonyms:	HAAP; LMW-PTP; LMWPTP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001040649 edited ATGGCGGAACAGGCTACCAAGTCCGTGCTTTGTGTGTCTGGGTAACATTTGTCGATCA CCCATTGCAGAAGCAGTTTTTCAGGAACTTGTAACCGATCAAAACATCTCAGAGAATTGG AGGGTAGACAGCGCGCAACTTCCGGGTATGAGATAGGGAACCCCTGACTACCGAGGG CAGAGCTGCATGAAGAGGCACGGCATTCCCATGAGCCACGTTGCCCGGCAGGTACCGTCC TTGACTTGAAGTTGTGTGTTTTGTGTTTCAGTGGTTCATTGACAGCGGTGCTGTTTCTG ACTGGAACGTGGGCCGGTCCCCAGACCCAAGAGCTGTGA
Restriction Sites:	Please inquire
ACCN:	NM_001040649
Insert Size:	5200 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 ORF of this clone has been fully sequenced and found to be a perfect match to NM_001040649.1.
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).



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**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\\_001040649.1](#), [NP\\_001035739.1](#)

**RefSeq Size:** 655 bp

**RefSeq ORF:** 339 bp

**Locus ID:** 52

**Cytogenetics:** 2p25.3

**Protein Families:** Druggable Genome, Phosphatase, Transmembrane

**Protein Pathways:** Adherens junction, Riboflavin metabolism

**Gene Summary:** The product of this gene belongs to the phosphotyrosine protein phosphatase family of proteins. It functions as an acid phosphatase and a protein tyrosine phosphatase by hydrolyzing protein tyrosine phosphate to protein tyrosine and orthophosphate. This enzyme also hydrolyzes orthophosphoric monoesters to alcohol and orthophosphate. This gene is genetically polymorphic, and three common alleles segregating at the corresponding locus give rise to six phenotypes. Each allele appears to encode at least two electrophoretically different isozymes, Bf and Bs, which are produced in allele-specific ratios. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Aug 2008]

Transcript Variant: This variant (4) represents the shortest transcript and encodes the shortest isoform (d). Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.