

Product datasheet for **MC204487**

Acp2 (NM_007387) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Acp2 (NM_007387) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Acp2 |
| Synonyms: | Acp; Acp-2; LAP |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >BC023343
 CAGTGATGGCCGGCAGACAGACTGGTTGGAGCCAGGCGGCTTTCTCCAGTTCCTTCTTGGCATGTGCCT
 AACGGTATGCCACCCATACAGGCCCGGAGTCTACGCTTTGTTACCTTGCTGTATCGACATGGAGATCGG
 TCACCAGTGAAGACATATCCCAAGGACCCTATCAGGAAGAGAAATGGCCCCAGGGATTTGGTCAGCTAA
 CCAAGGAAGGGATGCTACAGCACTGGGAGCTGGGCCAGGCCCTGCGGCAACGCTACCATGGCTTTCTGAA
 CACCTCTTACCACAGGCAAGAGGTTTATGTGCGAAGCACAGACTTCGATCGTACTCTCATGAGTGTGAG
 GCCAACCTGGCTGGACTTTCCCTCCCAATGAAGTTCAGCACTTCAACCCTAACATTTTCATGGCAGCCTA
 TCCTGTTCACACTGTGCCCATCACTGAAGACAGGTTGCTGAAGTTTCTTTGGGTCCATGTCCCGTTA
 TGAGCAGCTGCAGAATGAGACTCGGCAGACACAGAGTATCAGAACAGAAGTATTAGAATGCACAATTT
 CTGAACATGGTGGCCAACGAGACAGGGCTTACAAACGTGACCCTAGAGACCATCTGGAATGTGTATGACA
 CACTCTTTTGTGAGCAAACCCATGGGCTGCTTCTGCCGCCCTGGGCTCACCCCAAACCGTGCAGCGTCT
 GAGCCAGCTAAAGGACTTCAGCTTCTTCTTCTTCTCGGGATCCACGAGCAAGTACAGAAGGCCCGGCTT
 CAGGGGGGAGTTCTGCTGGCTCAGATATTGAAGAACCTGACCCTAATGGCAACTACCTCTCAATTCCTA
 AGTTCTGGTTTATTCGCGCATGACACTACCCTGGTTGCTCTGCAAATGGCATTGAATGTCTACAATGG
 GAAGCAAGCTCCCTATGCTTCTGCCACATATTTGAACTGTACCAGGAAGATAATGGGAATTTCTCAGTC
 GAGATGTACTTTTCGGAATGACAGTAAGAAGGCACCCTGGCTCTGATCCTGCCTGGCTGTCTCACCGTT
 GCCCACTGCAGGATTTCTTCCGCTCACAGAGCCTGTATACCCAAGGACTGGCAGAAGGAGTGCCAGCT
 AGCAAAATGATACTGCAGACACAGAGTAATTGTGGCATTGGCTGTCTGTGGCTCCATCCTTCTTCTC
 ATAGTGTGTCTCCTCACCATCCTTCCGGATGCAGGCCAGCCTCCTGGCTACCACCATGTTGCAGACA
 GGGAAAGACCATGCTTGACAACCACTCAGTCCCCTTCCCTCTGCCTCCTAGGGGAGGTGGGCTGAGTCTC
 GCTCCTGACCATTGCTGATCCCAGCCCAGGGACAGGGTTAGCCTTCTGATTACCTACGCCCAAATGAAT
 GAGTGAAGGCTCGGCTGGGTGTGCGGCACCTGGGCTCACCATTTTCATGCCTGATGTTTACCGTGTACTG
 TGTTGGACACTGGCTTTCTCAAATGGGATTTGCCTTCTATATTCCTAAGGACTTGAGATGAGCAGACA
 AGCATTAGATTTCACTCAAGACCTGGGACTAAAAAACAACAAACAAACCCCATGAAAACTGAAGA
 AGCTGGTACTTGATCTGCCTTGCTTCCACCGAGCCTTGTCTTTATCTTCTAGCCCATATCTTTGGCA
 AATGGCTTGAGGACATTGTCCCTTGGTACTTTTTAGAGGCAAAAACTGCAAACTACTAGGAGTATAAA
 ATATGGCTATCAAGAAGCTCGGTCATCCAACAGCAAAGTATCCTTTGGCTGAGGCTACCCTGAGTGTCA
 ACCACAGGACAGTCTGAAGGATACTTGGGCTGTACCTGGATGACAGTGGGAGGACACAGGTAGGAGTGAA
 ACACATGGAATCATGAGGTGACTCTCCTCAGTGGGCTGGACTTTCAGGGACCGTACACCTTGACCGTG
 GCCCAAATAGGGCTGAAGTAGCTCCGAGGAAATGAAGGTTTTGACTGTGAGTGTGTTCTGTGCCTTT
 TTTCCCTTCCCAATTTCTGACATCCAAGAAGCACTTACCAGGTCAGTACTAGATCTACTCAGAAACCC
 TGTTGGGCTTTTGGGTTTTAGTTAGATACAAAGGATATGCTTTTATTGGCCATGTAAAATTTGAACATA
 AAAGTTTTAAATTTCTCTGGTATTTTGTCTCTATACATCAGAAAAAAGAAAAGTACCTTGGCTCTAGCA
 TAAACTTGGCCTCCAGGCTAGATATAGCTGGGACCCTGAGCGTAGCTGGTTTACTCTTTAATTTTCTGGA
 GCAAAATCTAGAGCAGTAACATGTCAGCATCCTAGTCCCACAGTATCCCTTGTCAAAAGTGTCCCTGCTC
 CAACCCTAAGAATTTGGTACTTTTGGCCTATTAACAAACAGCTGCCACTCCTCACAGAATGTGTTCCCAT
 CTGTGGGGTCCAGTATTGCTGTCCACACCATCTTCATAGTCTTTCATGATCTTCTGTGACCCATCTTC
 CTCTTGGCTCAAATGAGAATATGATAACCTAGAAGAAACAAGAAGTCTGAATGACACCTTCTGTTGCTG
 GTCTGTCTCAGAGGTTGGGCTGTCTTGGGAACTAACAGACTGACATTGCCATGACTAAAATAAAACCA
 GATGGGTGACCTAGGCCAGAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_007387

Insert Size: 1272 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).

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| 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: | <u>BC023343</u> , <u>AAH23343</u> |
| RefSeq Size: | 2695 bp |
| RefSeq ORF: | 1272 bp |
| Locus ID: | 11432 |
| UniProt ID: | <u>P24638</u> |
| Cytogenetics: | 2 50.54 cM |
| Gene Summary: | <p>The protein encoded by this gene belongs to the histidine acid phosphatase family, which hydrolyze orthophosphoric monoesters to alcohol and phosphate. This protein is localized to the lysosomal membrane, and is chemically and genetically distinct from the red cell acid phosphatase. Mice lacking this gene showed multiple defects, including bone structure alterations, lysosomal storage defects, and an increased tendency towards seizures. An enzymatically-inactive allele of this gene showed severe growth retardation, hair-follicle abnormalities, and an ataxia-like phenotype. Two isoforms are predicted to be produced from the same mRNA by the use of alternative in-frame translation termination codons via a stop codon readthrough mechanism. [provided by RefSeq, Oct 2017]</p> <p>Transcript Variant: This variant (1) encodes two isoforms, which result from the use of alternative in-frame translation termination codons. The shorter isoform (1) results from translation termination at the upstream UGA stop codon, while the longer isoform (1x) results from UGA stop codon readthrough to the downstream UAG termination codon. This RefSeq represents the shorter isoform (1).</p> |