

Product datasheet for RN213595

Acp2 (NM_016988) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acp2 (NM_016988) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Acp2
Synonyms:	LAP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN213595 representing NM_016988 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGCAGACAGTCTGGTTGGAGCCAGGCGGCTCTTCTCCAGTTCCTTCTTGGCATGTGCCTAATGG
TGATGCCACCCATACAAGCCGGAGTCTGCGCTTTGTTACCTTGCTGTATCGACACGGAGATCGGTCACC
AGTGAAGGCATATCCTAAGGACCCATCAGGAAGAGAAAATGGCCCCAGGGATTTGGTCAGCTAACCAAG
GAAGGGATGCTACAGCATTGGGAGCTGGGCCAGGCCCTGCGGCAACGCTACCATGGCTTTCTGAACGCT
CTTACCACAGGCAAGAGGTTTACGTGCGAAGCACAGACTTTGACCGTACTCTCATGAGTGCAGAGGCCAA
CCTGGCCGGACTTCCCTCCCCTGAAGTTCAGCACTCAACCCGAACATTTTCATGGCAGCCTATCCCT
GTCCACACCGTGCCCATTAAGACAGGTTGCTGAAGTTTCTTTGGTCCATGTCCCGTTATGAGC
AGTTGCAGAACGAGACTCGGCAGACACCAGAGTATCAGAACATGAGTATTCAGAAATGCACAATTTCTGGA
CATGGTGGCCAAATGAGACAGGGCTTATGAACCTGACCCTAGAGACCATCTGGAATGTGTATGACACACTC
TTTTGTGAGCAAACACATGGGCTGCTCCTGCCACCCTGGGCTCTCCCAAACCGTGCAGCGTCTGAGCC
AGCTAAAGGACTTCAGTTCCTCTTCTCGGGATCCAGTCAAGTACAGAAAGGCCGCTTCAGGG
GGGAGTTCTGCTGGCTCAAATATTGAAGAATCTGACCCTAATGGCAACTACCTCTCAATCCCTAAGCTT
CTGGTTTATTCTGCGCATGACACTACCCTGGTTGCTCTGCAAATGGCACTGAATGTCTACAATGGTAAAC
AAGCCCCCTATGCTTCTGCCACATATTTGAAGTGTACCAGGAAGATAATGGGAATTTCTCAGTCGAGAT
GTACTTTCGGAATGACAGTAAGAAGGCACCCTGGCCACTGACCCTGCCTGGCTGTCTCACCCTTGGCCA
CTGCAGGACTTCTTCCGCTCACAGAACCTGTACATACCAAGGACTGGCAGAAGGAGTGCAGCTAGCAA
GCGATACTGCAGACACAGAGGTGATTGTGGCACTGGCTGTCTGTGGCTCCATCCTTCTTCTAATAGT
GTTGCTCCTCACTGTCTTCCGGATGCAGGCCAGCCTCCTGGCTACCACCATGTTGCAGACAGGGAA
GACCATGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_016988
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).
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:	NM_016988.2 , NP_058684.2
RefSeq Size:	2067 bp
RefSeq ORF:	1272 bp
Locus ID:	24162
Cytogenetics:	3q24
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>