

Product datasheet for **MR206733**

Acp2 (NM_007387) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acp2 (NM_007387) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acp2
Synonyms:	Acp; Acp-2; LAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR206733 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGCAGACAGACTGGTTGGAGCCAGGCGGCTCTTCTCCAGTTCCTTCTTGGCATGTGCCTAACGG
 TGATGCCACCCATACAGGCCGGAGTCTACGCTTTGTTACCTTGCTGTATCGACATGGAGATCGGTACCC
 AGTGAAGACATATCCCAAGGACCCCTATCAGGAAGAGAAATGGCCCCAGGGATTTGGTCAGCTAACCAAG
 GAAGGGATGCTACAGCACTGGGAGCTGGGCCAGGCCCTGCGGCAACGCTACCATGGCTTTCTGAACACCT
 CTTACCACAGGCAAGAGGTTTATGTGCGAAGCACAGACTTCGATCGTACTCTCATGAGTGTGAGGCCAA
 CCTGGCTGGACTTCCCTCCCAATGAAGTTCAGCACTCAACCCTAACATTTTCATGGCAGCCTATCCCT
 GTTCACACTGTGCCATCACTGAAGACAGGTTGCTGAAGTTTCTTTGGGTCCATGTCCCGTTATGAGC
 AGCTGCAGAAATGAGACTCGGCAGACACCAGAGTATCAGAACAGAAGTATTCAGAATGCACAATTTCTGAA
 CATGGTGGCCAAACGAGACAGGGCTTACAAACGTGACCCTAGAGACCATCTGGAATGTGTATGACACACTC
 TTTTGTGAGCAAACCCATGGGCTGCTTCTGCCGCCCTGGGCCACCCCAAACCGTGCAGCGTCTGAGCC
 AGCTAAAGGACTTCAGCTTCTCTTCTCTTCCGGATCCACGAGCAAGTACAGAAGGCCCGGCTTACGGG
 GGGAGTTCTGCTGGCTCAGATATTGAAGAACCTGACCCTAATGGCAACTACCTCTCAATTCCTAAGCTT
 CTGGTTTATTCCGCGCATGACACTACCCTGGTTGCTCTGCAATGGCATTGAATGTCTACAATGGGAAGC
 AAGCTCCCTATGCTTCTGCCACATATTTGAACGTACCAGGAAGATAATGGGAATTTCTCAGTCGAGAT
 GTACTTTCGGAATGACAGTAAGAAGGCACCCTGGCCTCTGATCCTGCCTGGCTGTCTCACCGTTGCCCA
 CTGCAGGATTTCTTTCGCTCACAGAGCCTGTATACCCAAGGACTGGCAGAAGGAGTCCAGCTAGCAA
 ATGATACTGCAGACACAGAGGTAATTGTGGCATTGGCTGTCTGTGGCTCCATCCTTCTCTCATAGT
 GTTGCTCTCACCATCTTCCGGATGCAGGCCACGCTCCTGGCTACCACCATGTTGCAGACAGGGAA
 GACCATGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206733 protein sequence
 Red=Cloning site Green=Tags(s)

MAGRQTGWSQAALLQFLLGMCLTVMPPIQARSLRFVTLRYHGRSPVKTYPKDPYQEEKWPQGFQGLTK
 EGMLQHWELGQALRQRYHGFNLTSYHRQEVYVRSTDFDRTLMSAEANLAGLFPNEVQHFNPNIWQPIIP
 VHTVPI TEDRLKFP LGPCPRYEQLQNETRQTPEYQNRSIQNAQFLNMVANETGLTNVTLETIWNVYDTL
 FCEQTHGLLLPPWASPQTVQRLSQLKDFSFLFLFGIHEQVQKARLQGGVLLAQILKNLTLMATTSQFPKL
 LVYSAHDTTLVALQMALNVYNGKQAPYASCHIFELYQEDNGNFSVEMYFRNDSKKAPWPLILPGCPHRCPL
 QDFLRLTEPVIKDWQKECQLANDTADTEVIVALAVCGSILFLLIVLLLITLFRMQAQPYPGYHHVADRE
 DHA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_007387

ORF Size: 1272 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_007387.2](#)

RefSeq Size: 4669 bp

RefSeq ORF: 1272 bp

Locus ID: 11432

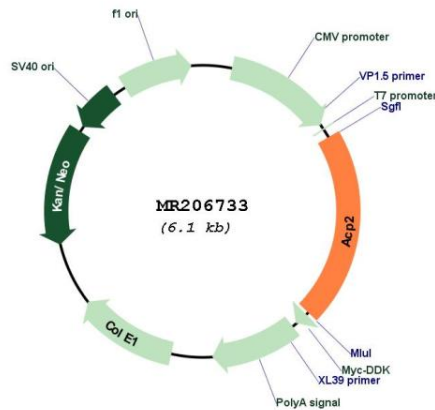
UniProt ID: [P24638](#)

Cytogenetics: 2 50.54 cM

MW: 48.5 kDa

Gene Summary: 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]

Product images:



Circular map for MR206733