

Product datasheet for **MG206733**

Acp2 (NM_007387) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acp2 (NM_007387) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acp2
Synonyms:	Acp; Acp-2; LAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206733 representing NM_007387 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGCAGACAGACTGGTTGGAGCCAGGCGGCTCTTCTCCAGTTCCTTCTTGGCATGTGCCTAACGG
TGATGCCACCCATACAGGCCCGGAGTCTACGCTTTGTTACCTTGCTGTATCGACATGGAGATCGGTCACC
AGTGAAGACATATCCCAAGGACCCCTATCAGGAAGAGAAATGGCCCCAGGGATTTGGTCAGCTAACCAAG
GAAGGGATGCTACAGCACTGGGAGCTGGGCCAGGCCCTGCGGCAACGCTACCATGGCTTTCTGAACCT
CTTACCACAGGCAAGAGGTTTATGTGCGAAGCACAGACTTCGATCGTACTCTCATGAGTGTGAGGCCAA
CCTGGCTGGACTTCCCTCCCAATGAAGTTCAGCACTTCAACCCTAACATTTTCATGGCAGCCTATCCCT
GTTCACACTGTGCCCATCACTGAAGACAGGTTGCTGAAGTTTCCTTTGGGTCCATGTCCCCGTTATGAGC
AGCTGCAGAATGAGACTCGGCAGACACCAGAGTATCAGAACAGAAGTATTCAGAAATGCACAATTTCTGAA
CATGGTGGCCAACGAGACAGGGCTTACAACGCTGACCCTAGAGACCATCTGGAATGTGTATGACACACTC
TTTTGTGAGCAAACCCATGGGCTGCTTCTGCCGCCCTGGGCTCACCCCAAACCGTGCAGCGTCTGAGCC
AGCTAAAGGACTTCAGCTTCTCTTCTTCTCGGGATCCACGAGCAAGTACAGAAGGCCCGGCTTCAGGG
GGGAGTTCTGCTGGCTCAGATATTGAAGAACCTGACCCATATGGCAACTACCTCTCAATTCCTAAGCTT
CTGGTTTATTCGCGCATGACACTACCTGGTTGCTCTGCAAATGGCATTGAATGTACAATGGGAAGC
AAGTCCCTATGCTTCTGCCACATATTTGAAGTGTACCAGGAAGATAATGGGAATTTCTCAGTCGAGAT
GTAATTCGGAATGACAGTAAGAAGGCACCCTGGCCTCTGATCCTGCCTGGCTGTCTCACCGTTGCCCA
CTGCAGGATTTCTTCGCTCACAGAGCCTGTACATACCAAGGACTGGCAGAAGGAGTGCCAGCTAGCAA
ATGATACTGCAGACACAGAGTAATTGTGGCATTGGCTGTCTGTGGCTCCATCCTCTTCTCATAGT
GTTGCTCCTCACCATCCTTCCGGATGCAGGCCAGCCTCCTGGCTACCACCATGTTGCAGACAGGGAA
GACCATGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206733 representing NM_007387
 Red=Cloning site Green=Tags(s)

MAGRQTGWSQAALLQFLLGMCLTVMPPIQARSLRFVTLRYHGDSPVKTYPKDPYQEEKWPQGFGLTK
 EGMLQHWELGQALRQRYHGFLNTSYHRQEVYVVRSTDFDRTLMSAEANLAGLFPPNEVQHFNPNISWQPIIP
 VHTVPI TEDRLKFP L GPCPRYEQ L QNETRQTPEYQNR SI QNAQFLNMVANETGLTNVTLETIWNVYDTL
 FCEQTHGLLLPPWASPQT VQRLSQLKDF SFLFLFGIHEQVQKARLQGGVLLAQILKNLTLMATTSQFPKL
 LVYSAHDTTLVALQMALNVYNGKQAPYASCHIFELYQEDNGNFSVEMYFRNDSKKAPWPLILPGCPHRCPL
 LQDFLRLTEPVIPKDWQKECQLANDTADTEVIVALAVCGSILFLLIVLLLTLIFRMQAQPPGYHHVADRE
 DHA

TRTRPLE - GFP Tag - V

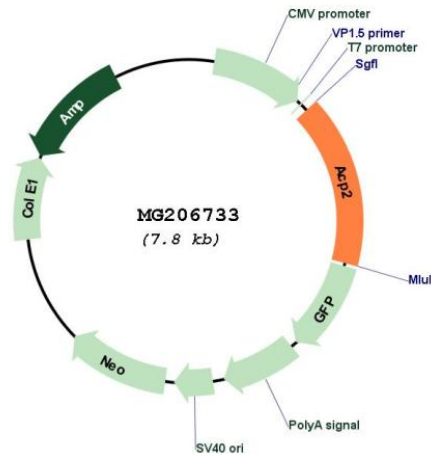
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_007387

ORF Size:	1269 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:	<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_007387.2
RefSeq Size:	2695 bp
RefSeq ORF:	1272 bp
Locus ID:	11432
UniProt ID:	P24638
Cytogenetics:	2 50.54 cM
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]