

OriGene Technologies, Inc.

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Product datasheet for RC225147

Acid Phosphatase 2 (ACP2) (NM_001131064) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acid Phosphatase 2 (ACP2) (NM_001131064) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acid Phosphatase 2
Synonyms:	acid phosphatase 2, lysosomal; Acp-2; LAP; OTTMUSP00000015308
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC225147 representing NM_001131064 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCGGGCAAGCGGTCCGGCTGGAGCCGGGCGGCTCTCCTCCAGCTCCTTCTCGGCGTGAACCTGGTGG TGATGCCGCCCACCCGGGCCCGAGTCTGCGCTTCGTTACCTTGCTGTACCGCCATGGAGACCGTTCACC AGTGAAGACATATCCCAAGGACCCCTATCAGGAAGAAGAATGGCCCCAGGGGTTTGGTCAGTTAACCAAG GAGGGGATGCTACAGCACTGGGAACTGGGCCAGGCCCTGCGGCAGCGCTATCACGGCTTCCTAAACACCT CTTATCACCGGCAAGAGGTTTATGTGCGAAGCACAGACTTTGACCGGACTCTCATGAGTGCTGAGGCCAA CCTGGCTGGACTCTTCCCTCCCAACGGGATGCAGCGCTTCAACCCGAACATCTCGTGGCAGCCTATTCCT GTGCACACTGTGCCCATCACTGAGGACAGGGTAAGAGTGGCCAGCCCTTCCTGGGGTGG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC225147 representing NM_001131064 Red=Cloning site Green=Tags(s)
	MAGKRSGWSRAALLQLLLGVNLVVMPPTRARSLRFVTLLYRHGDRSPVKTYPKDPYQEEEWPQGFGQLTK EGMLQHWELGQALRQRYHGFLNTSYHRQEVYVRSTDFDRTLMSAEANLAGLFPPNGMQRFNPNISWQPIP VHTVPITEDRVRVASPSLGW
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/ja1247_b11.zip



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US Acid Phosphatase 2 (ACP2) (NM_001131064) Human Tagged ORF Clone – RC225147



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	Acid Phosphatase 2 (ACP2) (NM_001131064) Human Tagged ORF Clone – RC225147
Cytogenetics:	11p11.2 11p12-p11
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways	: Lysosome, Riboflavin metabolism
MW:	18.2 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 in mice showed severe growth retardation, hairfollicle abnormalities, and an ataxia-like phenotype. Alternatively spliced transcript variants have been found for this gene. A C-terminally extended isoform is also predicted to be produced by the use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism. [provided by RefSeq, Oct 2017]

Product images:



Circular map for RC225147



Western blot validation of overexpression lysate (Cat# [LY427374]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225147 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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