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Product datasheet for RC210752

Tartrate Resistant Acid Phosphatase (ACP5) (NM_001611) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tartrate Resistant Acid Phosphatase (ACP5) (NM_001611) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tartrate Resistant Acid Phosphatase
Synonyms:	HPAP; TRACP5a; TRACP5b; TRAP; TrATPase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC210752 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACATGTGGACGGCGCTGCTCATCCTGCAAGCCTTGTTGCTACCCTCCCTGGCTGATGGTGCCACCC
CTGCCCTGCGCTTTGTAGCCGTGGGTGACTGGGGAGGGGTCCCCAATGCCCCATTCCACACGGCCCGGGA
AATGGCCAATGCCAAGGAGATCGCTCGGACTGTGCAGATCCTGGGTGCAGACTTCATCCTGTCTCTAGGG
GACAATTTTTACTTCACTGGTGTGCAAGACATCAATGACAAGAGGTTCCAGGAGACCTTTGAGGACGTAT
TCTCTGACCGCTCCCTTCGCAAAGTGCCCTGGTACGTGCTAGCCGGAAACCATGACCACCTTGGCAATGT
CTCTGCCCAGATTGCATACTCTAAGATCTCCAAGCGCTGGAACTTCCCCAGCCCTTTCTACCGCCTGCAC
TTCAAGATCCCACAGACCAATGTGTCTGTGGCCATTTTTATGCTGGACACAGTGACACTATGTGGCAACT
CAGATGACTTCCTCAGCCAGCAGCCTGAGAGGCCCCGAGACGTGAAGCTGGCCCGCACACAGCTGTCCTG
GCTCAAGAAACAGCTGGCGGCGGCCAGGGAGGACTACGTGCTGGTGGCTGGCCACTACCCCGTGTGGTCC
ATAGCCGAGCACGGGCCTACCCACTGCCTGGTCAAGCAGCTACGGCCACTGCTGGCCACATACGGGGTCA
CTGCCTACCTGTGCGGCCACGATCACAATCTGCAGTACCTGCAAGATGAGAATGGCGTGGGCTACGTGCT
GAGTGGGGCTGGGAATTTCATGGACCCCTCAAAGCGGCACCAGCGCAAGGTCCCCAACGGCTATCTGCGC
TTCCACTATGGGACTGAAGACTCACTGGGTGGCTTTGCCTATGTGGAGATCAGCTCCAAAGAGATGACTG
TCACTTACATCGAGGCCTCGGGCAAGTCCCTCTTTAAGACCAGGCTGCCGAGGCGAGCCAGGCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RC210752 protein sequence
Red=Cloning site Green=Tags(s)

MDMWTALLILQALLLPSLADGATPALRFVAVGDWGGVPNAPFHTAREMANAKEIARTVQILGADFILSLG
DNFYFTGVQDINDKRFQETFEDVFSDRSLRKVPWYVLAGNHDHLGNVSAQIAYSKISKRWNFPSPFYRLH
FKIPQTNVSVAIFMLDTVTLCGNSDDFLSQQPERPRDVKLARTQLSWLKKQLAAAREDYVLVAGHYPVWS
IAEHGPTHCLVKQLRPLLATYGVTAYLCGHDHNLQYLQDENGVGYVLSGAGNFMDPSKRHQRKVPNGYLR
FHYGTEDSLGGFAYVEISSKEMTVTYIEASGKSLFKTRLPRRARP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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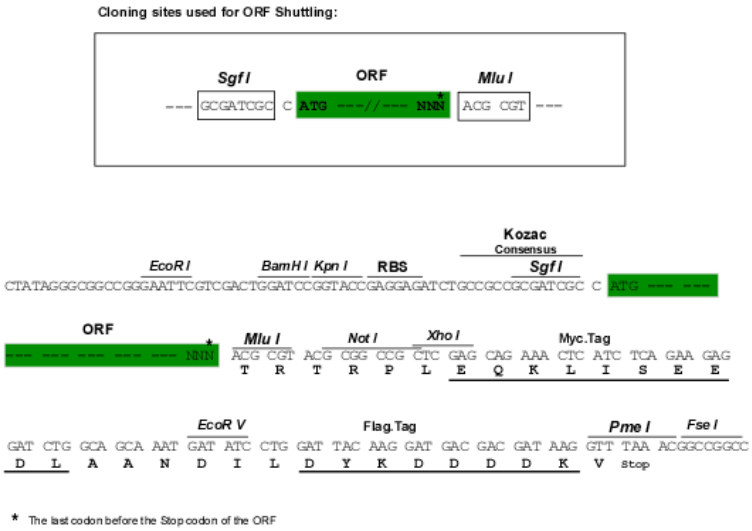
Chromatograms: https://cdn.origene.com/chromatograms/mk6003_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001611

ORF Size: 975 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001611.5
RefSeq Size:	1506 bp
RefSeq ORF:	978 bp
Locus ID:	54
UniProt ID:	P13686
Cytogenetics:	19p13.2
Domains:	Metallophos
Protein Families:	Druggable Genome
Protein Pathways:	Lysosome, Riboflavin metabolism
MW:	36.6 kDa
Gene Summary:	This gene encodes an iron containing glycoprotein which catalyzes the conversion of orthophosphoric monoester to alcohol and orthophosphate. It is the most basic of the acid phosphatases and is the only form not inhibited by L(+)-tartrate. [provided by RefSeq, Aug 2008]

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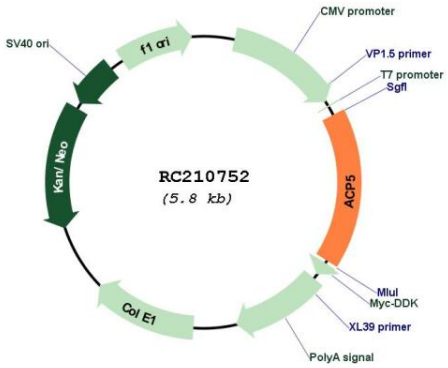
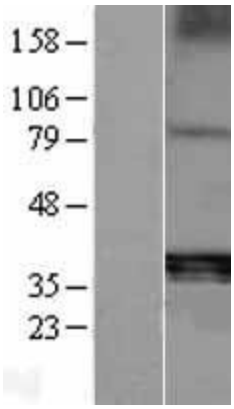
Product images:



Circular map for RC210752



Western blot validation of overexpression lysate (Cat# [LY426342]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225473] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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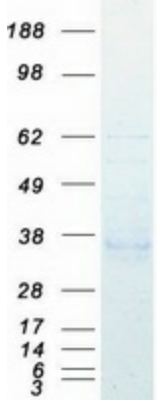

Coomassie blue staining of purified ACP5 protein (Cat# [TP310752]). The protein was produced from HEK293T cells transfected with ACP5 cDNA clone (Cat# RC210752) using MegaTran 2.0 (Cat# [TT210002]).

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