

Product datasheet for RC230972

PTP4A2 (NM_001195101) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PTP4A2 (NM_001195101) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PTP4A2
Synonyms: HH7-2; HH13; HU-PP-1; OV-1; PRL-2; PRL2; ptp-IV1a; ptp-IV1b; PTP4A; PTPCAAX2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC230972 representing NM_001195101
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACCGTCCAGCCCCTGTGGAGATCTCCTATGAGAACATGCGTTTTCTGATAACTCACAAACCCTACCA
ATGCTACTCTCAACAAGTTCACAGAGGATTGGCCATTTGATGATGGAGCTCCACCCCTAATCAGATAGT
AGATGATTGGTTAAACCTGTTAAAAACCAAATTCGTGAAGAGCCAGTTGCTGTGTTGCAGTGCATTGT
GTTGCAGGATTGGGAAGGCACCTGTGCTGGTTGCACTTGCTTTGATTGAATGTGGAATGAAGTACGAAG
ATGCAGTTCAGTTTATAAGACAAAAAAGAAGGGGAGCGTTCAATTCCAAACAGCTGCTTTATTTGGAGAA
ATACCGACCTAAGATGCGATTACGCTTCAGAGATACCAATGGGCATTGCTGTGTTTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230972 representing NM_001195101
Red=Cloning site Green=Tags(s)
MNRPAPVEISYENMRFLITHNPTNATLNKFTEDWPFDDGAPPPNQIVDDWLNLLKTKFREEPGCCVAVHC
VAGLGRAPVLVALALIECGMKYEDAVQFIRQKRRGAFNSKQLLYLEKYRPMRLRFRDRTNGHCVVQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

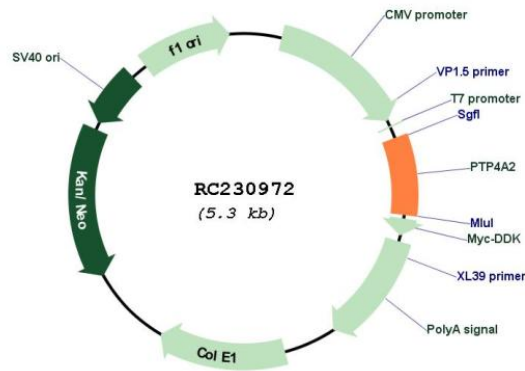


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001195101

ORF Size: 408 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_001195101.2
RefSeq ORF:	411 bp
Locus ID:	8073
UniProt ID:	Q12974
Cytogenetics:	1p35.2
Protein Families:	Druggable Genome, Phosphatase
MW:	16.1 kDa
Gene Summary:	<p>The protein encoded by this gene belongs to a small class of the protein tyrosine phosphatase (PTP) family. PTPs are cell signaling molecules that play regulatory roles in a variety of cellular processes. PTPs in this class contain a protein tyrosine phosphatase catalytic domain and a characteristic C-terminal prenylation motif. This PTP has been shown to primarily associate with plasmic and endosomal membrane through its C-terminal prenylation. This PTP was found to interact with the beta-subunit of Rab geranylgeranyltransferase II (beta GGT II), and thus may function as a regulator of GGT II activity. Overexpression of this gene in mammalian cells conferred a transformed phenotype, which suggested its role in tumorigenesis. Alternatively spliced transcript variants have been described. Related pseudogenes exist on chromosomes 11, 12 and 17. [provided by RefSeq, Aug 2010]</p>