

Product datasheet for RC217944

PTP4A3 (NM_007079) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	PTP4A3 (NM_007079) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTP4A3
Synonyms:	PRL-3; PRL-R; PRL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC217944 representing NM_007079 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCTCGGATGAACCGCCCGGCCCCGGTGGAGGTGAGCTACAAACACATGCGCTTCCTCATCACCCACA ACCCCACCAACGCCACGCTCAGCACCTTCATTGAGGACCTGAAGAAGTACGGGGCTACCACTGTGGTGCG TGTGTGTGAAGTGACCTATGACAAAACGCCGCTGGAGAAGGATGGCATCACCGTTGTGGACTGGCCGTTT GACGATGGGGCGCCCCCGCCCGGCAAGGTAGTGGAAGACTGGCTGAGCCTGGTGAAGGCCAAGTTCTGTG AGGCCCCCGGCAGCTGCGTGGCTGTGCACTGCGTGGCGGGCCTGGGCCGGAAGCGCCGCGGAGCCATCAA CAGCAAGCAGCTCACCTACCTGGAGAAATACCGGCCCAAACAGAGGCTGCGGTTCAAAGACCCACACACG CACAAGACCCGGTGCTGCGTTATG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	<pre>>RC217944 representing NM_007079 Red=Cloning site Green=Tags(s)</pre>
	MARMNRPAPVEVSYKHMRFLITHNPTNATLSTFIEDLKKYGATTVVRVCEVTYDKTPLEKDGITVVDWPF DDGAPPPGKVVEDWLSLVKAKFCEAPGSCVAVHCVAGLGRKRRGAINSKQLTYLEKYRPKQRLRFKDPHT HKTRCCVM
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6104_c01.zip



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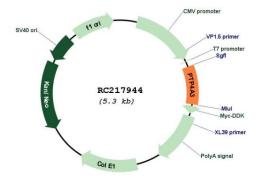
PTP4A3 (NM_007079) Human Tagged ORF Clone – RC217944

Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgf1 ORF Miu I GCGATCGC C ATC: XISH ACG CGT
	$\frac{EcoRI}{EcoRI} = BamHI Kpn I} RBS SgfI$ CTATAGGGCGGCGGGAATTCGTCGACTGGATCGGGTACCGGGAGAGATCTGCGCGGCGGCGGCGCGCGC
	Ecor V Flag.Tag Pme Fse GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGGCC D L A N D I L D Y K D D K V stop
	* The last codon before the Stop codon of the ORF
CCN:	NM_007079
RF Size:	444 bp
TI 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. <u>More info</u>
TI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
omponents:	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).
econstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
efSeq:	<u>NM 007079.3</u>
efSeq Size:	1321 bp
efSeq ORF:	447 bp
ocus ID:	11156

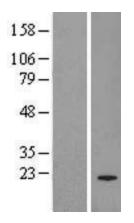
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ORIGENE PTP4A	3 (NM_007079) Human Tagged ORF Clone – RC217944
UniProt ID:	<u>075365</u>
Cytogenetics:	8q24.3
Protein Families:	Druggable Genome, Phosphatase
MW:	16.6 kDa
Gene Summary:	This gene encodes a member of the protein-tyrosine phosphatase family. Protein tyrosine phosphatases are cell signaling molecules that play regulatory roles in a variety of cellular processes. Studies of this class of protein tyrosine phosphatase in mice demonstrates that they are prenylated in vivo, suggesting their association with cell plasma membrane. The encoded protein may enhance cell proliferation, and overexpression of this gene has been implicated in tumor metastasis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product images:

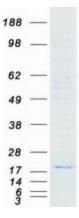


Circular map for RC217944



Western blot validation of overexpression lysate (Cat# [LY416216]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217944 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified PTP4A3 protein (Cat# [TP317944]). The protein was produced from HEK293T cells transfected with PTP4A3 cDNA clone (Cat# RC217944) using MegaTran 2.0 (Cat# [TT210002]).

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