

Product datasheet for **RR209885**

Ptp4a2 (NM_053475) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptp4a2 (NM_053475) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ptp4a2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR209885 representing NM_053475
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAACCGTCCAGCCCCTGTGGAGATCTCGTACGAGAACATGCGTTTTCTGATAACTCACAACCCAGCCA
ATGGCAGCTCTCAACAAGTTCACCGAGGAAGTCAAGAAGTACGGAGTGACAACCTTTGGTCCGAGTTTGTGA
TGCTACCTATGACAAAGCTCCAGTTGAAAAAGAAGGGATCCACGTTCTAGACTGGCCATTTGATGACGGA
GCTCCGCCCCCTAATCAGATAGTAGATGATTGGCTAAACCTGTTAAAGACCAAATTCGGGAAGAACCAG
GCTGCTGTGTCGAGTGCATTGTGTTGCAGGATTGGGAAGGGCTCCTGTGCTAGTTGCACTTGCCTGAT
TGAATGCGGAATGAAGTATGAAGATGCTGTTTCAAGTATAAGACAAAAAAGAAGAGGAGCATTCAATTCC
AAACAGCTGCTTTACTTGGAGAAATACCGACCTAAGATGCGATTACGCTCCAGAGATACCAACGGGCACT
GCTGTGTTTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR209885 representing NM_053475
Red=Cloning site Green=Tags(s)

MNRPAPVEISYENMRFLITHNPANATLNKFTEELKKYGVTTLVRVCDATYDKAPVEKEGIHVLDPFDDG
APPPNQIVDDWLNLLKTKFREEPGCCVAVHCVAGLGRAPVLVALALIECGMKYEDAVQFIRQKRRGAFNS
KQLLYLEKYRPMRLRSRDTNGHCCVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

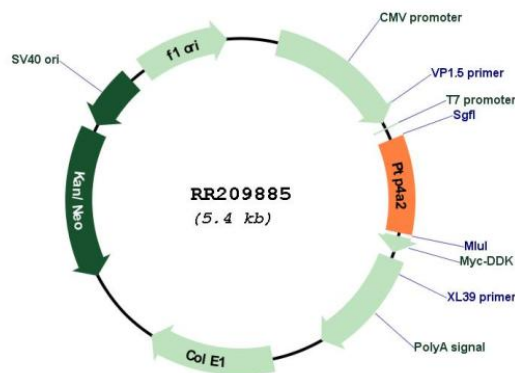


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Cloning Scheme:



Plasmid Map:



ACCN: NM_053475

ORF Size: 501 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:	<u>NM_053475.1</u> , <u>NP_445927.1</u>
RefSeq Size:	1095 bp
RefSeq ORF:	504 bp
Locus ID:	85237
UniProt ID:	<u>Q6P9X4</u>
Cytogenetics:	5q36
MW:	19 kDa
Gene Summary:	expression pattern in pituitary displays sexual dimorphism; may play a role in endocrine function [RGD, Feb 2006]