

Product datasheet for **RG233749**

PRPSAP2 (NM_001243940) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRPSAP2 (NM_001243940) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRPSAP2
Synonyms:	PAP41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233749 representing NM_001243940 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTTGTGTGACGCCACCTGAATTAGAAACCAAGATGAACATAACCAAAGGTGGTCTGGTGTGTTTT
CAGCAAATCGAATTCATCATGTATGGAGCTATCAAAGAAAATTGCAGAGCGGCTAGGGGTGAGATGGG
CAAAGTGCAGGTTTACCAGGAACCTAACAGAGAAACAAGAGTACAAATTCAGAGTCTGTGAGGGGAAAA
GATGTTTTCATCATCCAACTGTTTGAAGGACGTGAACACCACCATCATGGAGCTCCTGATCATGGTGT
ATGCATGTAAGACCTCTTGTGCCAAGAGCATCATTGGCGTGATACCCTACTTTCCTTACAGCAAGCAGTG
CAAGATGAGAAAAAGAGGCTCCATTGTCTCTAAATTGCTGGCTTCCATGATGTGCAAAGCTGGTCTAACT
CATCTTATTACTATGGATTTACACCAGAAGGAAATTCAGGGCTTCTTCAATATTCCTGTTGACAATTTAA
GAGCATCTCCCTTCTTATTACAGTATATTCAAGAAGAGATCCCAGATTACAGGAATGCAGTAATCGTGGC
CAAGTCTCCAGCCTCGGCGAAGAGGGCACAGTCTTTTGTGAGCGCCTGCGCCTGGGAATTGCAGTGATT
CATGGAGAGGCGCAGGATGCCGAGTCGGACTTGGTGGATGGACGGCATTCCCCACCCATGGTCAGAAGTG
TGGCTGCCATCCACCCAGCCTGGAGATCCCCATGCTGATTCTTAAAGAAAAGCCCCCAATCACGGTTGT
GGGTGATGTTGGAGGAAGGATTGCCATCATCGTGGTGGTGGTACCAATACAATCCACATGAAGTCCAG
AAGCTCCAGTGCCCAAGATTAAGTGGATATCAGCATGATCCTTTCAGAGGCGATCCGTCGGATCC
ACAATGGGGAGTCCATGTCTACCTTTTCAGAAACATAGGCTTAGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233749 representing NM_001243940
 Red=Cloning site Green=Tags(s)

MFCVTPPELETKMNITKGGVLVFSANSNSSCMELSKKIAERLGVEMGKVQVYQEPNRETRVQIQESVRGK
 DVFIIQTVSKDVNTTIMELLIMVYACKTSCAKSIIGVIPYFPYSKQCKMRKRSIVSKLLASMMCKAGLT
 HLITMDLHQKEIQGFFNIPVDNLRASPFLQYIQEEIPDYRNAVIVAKSPASAKRAQSFAERLRLGIAVI
 HGEAQDAESDLVDGRHSPPMVRVVAIIHPSLEIPMLIPKEKPPITVVGDVGGRIAIIVVVVNTNIPHEVQ
 KLQCPKIKTVDISMILSEAIRRIHNGESMSYLFRNIGLDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001243940

ORF Size: 960 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:

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_001243940.1](#), [NP_001230869.1](#)

RefSeq Size: 1680 bp

RefSeq ORF: 963 bp

Locus ID: 5636

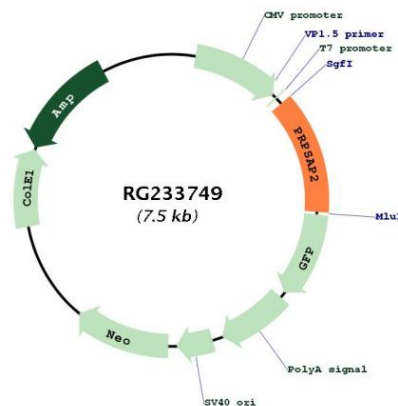
UniProt ID: [O60256](#)

Cytogenetics: 17p11.2

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein that associates with the enzyme phosphoribosylpyrophosphate synthetase (PRS). PRS catalyzes the formation of phosphoribosylpyrophosphate which is a substrate for synthesis of purine and pyrimidine nucleotides, histidine, tryptophan and NAD. PRS exists as a complex with two catalytic subunits and two associated subunits. This gene encodes a non-catalytic associated subunit of PRS. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG233749