

Product datasheet for **RG210719**

PRPSAP2 (NM_002767) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRPSAP2 (NM_002767) 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:	>RG210719 representing NM_002767 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGTTTTGTGTGACGCCACCTGAATTAGAAACCAAGATGAACATAACCAAAGGTGGTCTGGTGTGTTTT
CAGCAAATCGAATTCATCATGTATGGAGCTATCAAAGAAAATTGCAGAGCGGCTAGGGTGGAGATGGG
CAAAGTGCAGGTTTACCAGGAACCTAACAGAGAAACGAGAGTACAAATTCAGAGTCTGTGAGGGGAAAA
GATGTTTTCATCATCCAACTGTTTGAAGGACGTGAACACCACCATCATGGAGCTCCTGATCATGGTGT
ATGCATGTAAGACCTCTTGTGCCAAGAGCATCATTGGCGTGATACCCTACTTTCCTTACAGCAAGCAGTG
CAAGATGAGAAAAAGAGGCTCCATTGTCTCTAAATTGCTGGCTCCATGATGTGCAAAGCTGGTCTAACT
CATCTTACTACTATGGATTTACACCAGAAGGAAATTCAGGGCTTCTTCAATATTCCTGTTGACAATTTAA
GAGCATCTCCCTTCTTATTACAGTATATTCAGAAGAGATCCCAGATTACAGGAATGCAGTAATCGTGCC
CAAGTCTCCAGCCTCGGCGAAGAGGGCACAGTCTTTTGTGAGCGCCTGCGCCTGGGAATTGCAGTGATT
CATGGAGAGGCGCAGGATGCCGAGTCGGACTTGGTGGATGGACGGCATTCCCCACCCATGGTCAGAAAGTG
TGGCTGCCATCCACCCAGCCTGGAGATCCCCATGCTGATTCTTAAAGAAAAGCCCCCAATCACGGTTGT
GGGTGATGTTGGAGGAAGGATTGCCATCATCGTGGATGACATCATTGATGATGTTGACAGCTTCTTGTCT
GCAGCAGAGACCCTGAAGGAAAGAGGTGCATATAAGATCTTTGTGATGGCAACTCATGGCTGTTGTCTT
CTGACGCCCCCGCGGATTGAAGAGTCTGCCATTGATGAGGTGGTGGTACCAATACAATTCCACATGA
AGTCCAGAAGCTCCAGTGCCCCAAGATTAAGACTGTGGATATCAGCATGATCCTTTCAGAGGCGATCCGT
CGGATCCACAATGGGGAGTCCATGTCCTACCTTTTCAGAAACATAGGCTTAGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210719 representing NM_002767
 Red=Cloning site Green=Tags(s)

MFCVTPPELETKMNITKGGVLVFSANSNSSCMELSKKIAERLGVEMGKVQVYQEPNRETRVQIQESVRGK
 DVFIIQTVSKDVNTTIMELLIMVYACKTSCAKSIIGVIPYFPYSKQCKMRKRSIVSKLLASMMCKAGLT
 HLITMDLHQKEIQGFFNIPVDNLRASPFLQYIQEEIPDYRNAVIVAKSPASAKRAQSFAERLRLGI
 AVIHGEAQDAESDLVDRHSPPMVRSVAIIHPSLEIPMLIPKEKPPITVVGDVGGRIAIIVDDIIDDVDSFLA
 AAETLKERGAYKIFVMATHGLLSSDAPRRIEESAIDEVVVNTNIPHEVQKLQCPKIKTVDISMILSEAIR
 RIHNGESMSYLFRNIGLDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002767

ORF Size: 1107 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_002767.2](#), [NP_002758.1](#)

RefSeq Size: 1890 bp

RefSeq ORF: 1110 bp

Locus ID: 5636

UniProt ID: [O60256](#)

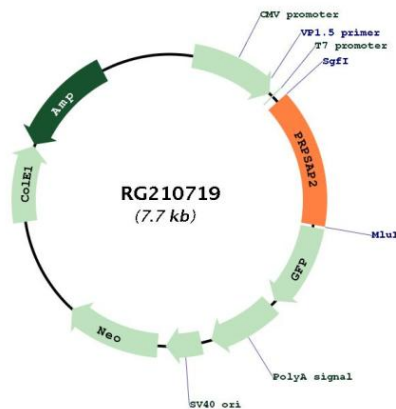
Cytogenetics: 17p11.2

Domains: Pribosyltran

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 RG210719