

Product datasheet for **RG232373**

PRPSAP2 (NM_001243942) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PRPSAP2 (NM_001243942) 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: >RG232373 representing NM_001243942
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTCCTGATCATGGTGTATGCATGTAAGACCTCTTGTCGAAGAGCATCATTGGCGTGATACCCCT
ACTTTCCTTACAGCAAGCAGTGAAGATGAGAAAAAGAGGCTCCATTGTCTCTAAATTGCTGGCTCCAT
GATGTGCAAAGCTGGTCTAACTCATCTTATTACTATGGATTTACACCAGAAGGAAATTCAGGGCTTCTTC
AATATTCCTGTTGACAATTAAGAGCATCTCCCTTCTTATTACAGTATATTCAAGAAGAGATCCCAGATT
ACAGGAATGCAGTAATCGTGGCCAAGTCTCCAGCCTCGGCGAAGAGGGCACAGTCTTTTGTGAGCGCCT
GCGCCTGGGAATTGCAGTGATTCATGGAGAGGCGCAGGATGCCGAGTCGGACTTGGTGGATGGACGGCAT
TCCCCACCCATGGTCAGAAGTGTGGCTGCCATCCACCCAGCCTGGAGATCCCCATGCTGATTCTCTAAAG
AAAAGCCCCAATCACGGTTGTGGGTGATGTTGGAGGAAGGATTGCCATCATCGTGGATGACATCATTGA
TGATGTTGACAGCTTTCTTGCTGCAGCAGAGACCCTGAAGGAAAGAGGTGCATATAAGATCTTTGTGATG
GCAACTCATGGCTTGTGCTTCTGACGCCCCCGGGGATTGAAGAGTCTGCCATTGATGAGGTGGTGG
TCACCAATACAATTCCACATGAAGTCCAGAAGTCCAGTGCCCCAAGATTAAGTGTGGATATCAGCAT
GATCCTTTCAGAGGCGATCCGTCCGATCCACAATGGGGAGTCCATGTCTACCTTTTCAGAAACATAGGC
TTAGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232373 representing NM_001243942
 Red=Cloning site Green=Tags(s)

MELLIMVYACKTSCAKSIIGVIPYFPYSKQCKMRKRSIVSKLLASMMCKAGLTHLITMDLHQKEIQGFF
 NIPVDNLRASPFLQYIQEEIPDYRNAIVAKSPASAKRAQSF AERLR LGLIAVIHG EAQDAESDLVDGRH
 SPPMVRVAAIHP SLEIPMLIPKEKPPITVVG DVGGRIAI VDDIIDDVDSFLAA AETLKERGAYKIFVM
 ATHGLLSSDAPRRIEESAIDEVVV TNTIPHEVQKLQCPKIKTVDISMILSEAIRRIHNGESMSYLF RNI
 LDD

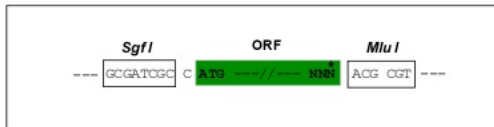
TRTRPLE - GFP Tag - V

Restriction Sites:

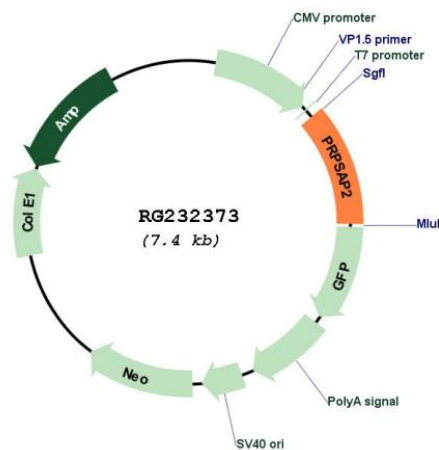
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001243942

ORF Size: 849 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_001243942.1 , NP_001230871.1
RefSeq Size:	1905 bp
RefSeq ORF:	852 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]