

Product datasheet for RC229184

PRPSAP1 (NM_002766) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRPSAP1 (NM_002766) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRPSAP1
Synonyms:	PAP39
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229184 representing NM_002766 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCCAAGAAGCTGCTGCTGTTGCCCCGCCCTCCGCGTCTCGGCTTCCGCGTCCCAGCGCCCGCC
CCGTTCCCGCGCCGATGAACGCCGCTCGCACCAGGCTACCGAGTCTTCTCGGCCAACTCCACGGCCGC
CTGCACGGAGCTGGCCAAGCGCATCACAGAGCGCCTTGGTGTGAATTGGGAAGTCTGTTGATATCAA
GAGACCAATGGAGAAACAAGAGTTGAAATAAAGAATCTGTTCTGGCCAAGATATTTTCATTATACAGA
CAATACCCAGAGATGTGAATACAGCTGTGATGGAGTTGCTCATCATGGCTTACGCACTGAAGACTGCCTG
TGCCAGGAACATTATTGGGGTCACTCCCTACTTCCCTACAGCAAGCAGAGCAAGATGAGGAAGAGGGGT
TCCATTGTGTGCAAGCTGCTAGCATCCATGCTGGCGAAAGCAGGTTTAACTCACATTATCACTATGGATC
TTCATCAAAGGAAATACAAGGCTTTTTAGCTTTCTGTGGACAACCTTAGAGCCTCACCTTCTCCTGCT
TCAGTATATCCAGGAAGAAATCCAAATACAGAAATGCAGTCATTGTAGCTAAGTCTCCTGATGCTGCA
AAGAGGGCCAGTCTATGCGGAGAGACTGCGTCTGGGTTGGCCGTCATTACCGGGGAAGCTCAGTGCA
CGAACTGGACATGGACGATGGTCGTCCTCCCGCCTATGGTCAAAAATGCTACTGTGCACCCAGGCCT
GGAGTTGCCATTGATGATGGCCAAGAGAAGCCACCGATAACTGTAGTTGGAGATGTTGGAGGCCGATC
GCAATCATCGTGGATGACATTATTGACGATGTGGAGATTTTGTGCTGCCGCGGAGATCCTGAAAGAGA
GAGGCGCCTATAAGATCTATGTTATGGCCACCCACGGCATCCTGTCTGCAGAGGCCCTCGCCTGATTGA
GGAGTCTCCGTAGACGAGGTGGTGGTACGAATACTGTCCCTCATGAGGTTCAGAAGCTGCAATGTCCC
AAGATAAAGACTGTGGATATCAGTTTATTCTTTCTGAAGCCATTGCGAGAATCCACAATGGAGAGTCCA
TGGCCTACCTTTCCGAAACATCACTGTGGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229184 representing NM_002766
Red=Cloning site Green=Tags(s)

MPKLLLLPPPSASSAFRVPRARPVPPAMNAARTGYRVFSANSTAACTELAKRITERLGAELGKSVVYQ
 ETNGETRVEIKESVRGQDIFIIQTIIPRDVNTAVMELLIMAYALKTACARNIIGVIPYFPYSKQSKMRKRG
 SIVCKLLASMLAKAGLTHIITMDLHQKEIQGFFSFPVDNLRASPFLLQYIQEEIPNYRNAVIVAKSPDAA
 KRAQSYAERLRGLAVIHGEAQCTELDMDDGRHSPPMVKNATVHPGLELPLMMAKEKPPITVVGDVGGRI
 AIIVDDIIDDVESFVAAAEILKERGAYKIYVMATHGILSAEAPRLIEESSVDEVVVTNTVPHEVQKLQCP
 KIKTVDISLILSEAIRRIHNGESMAYLFRNITVDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8056_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002766

ORF Size: 1155 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_002766.3](#)

RefSeq ORF: 1158 bp

Locus ID: 5635

UniProt ID: [Q14558](#)

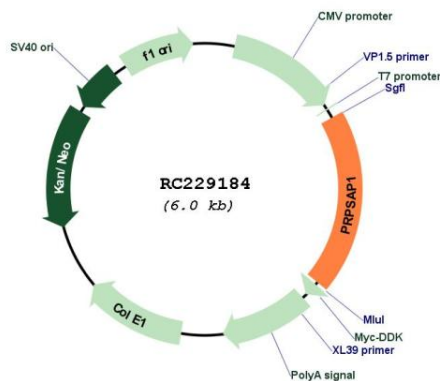
Cytogenetics: 17q25.1

Domains: Pribosyltran

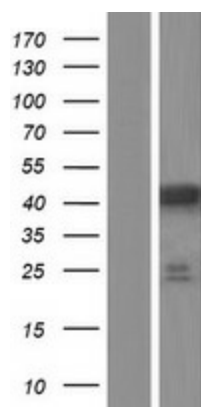
MW: 42.3 kDa

Gene Summary: Seems to play a negative regulatory role in 5-phosphoribose 1-diphosphate synthesis. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC229184



Western blot validation of overexpression lysate (Cat# [LY432208]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229184 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).