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Product datasheet for SC118400

PRPSAP2 (NM_002767) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRPSAP2 (NM_002767) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRPSAP2
Synonyms:	PAP41
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_002767 edited
AGGTTGTCCATAATTGACTTTAAGCAGCAATCAGTAAAACATTGAGCTCTTCAGCTCCGC
CTTTCTTGCTCTGAAAATTGGAAAACCAAGAAGGTTTTGATGTTTTGTGTGACGCCACCT
GAATTAGAAACCAAGATGAACATAACCAAAGGTGGTCTGGTGTTGTTTTCAGCAAACTCG
AATTCATCATGTATGGAGCTATCAAAGAAAATTGCAGAGCGGCTAGGGGTGGAGATGGGC
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CAAGATGAACATAACCAAAGGTGGTCTGGTGTTGTTTTCAGCAAACTCGAATTCATCATG
TATGGAGCTATCAAAGAAAATTGCAGAGCGGCTAGGGGTGGAGATGGGCAAAGTGCAGGT

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TTACCAGGAACCTAACAGAGAAACAAGAGTACAAATTCAAGAGTCTGTGAGGGGAAAAGA
TGTTTTCATCATCCAAACTGTTTCGAAGGACGTGAACACCACCATCATGGAGCTCCTGAT
CATGGTGTATGCATGTAAGACCTCTTGTGCCAAGAGCATCATTGGCGTGATACCCTACTT
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002767 unedited
GCACGAGGCGCCAATCTTGTGCATGGAGTCGCCATTTTGCTCCTAGAGAGGCCGCCAGGA
GACCCGGCGCTTTCTTCCTTCTGCAGCTGAGGCTGCGGCGGGGCCGGGGCTGGGGTCGGG
GCCAGGAGGAATTTTGTTGTCAGAGAATAAAAGGAGGTTGTCCATAATTGACTTTAAGCA
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CAAAGGTGGTCTGGTGTTGTTTTCAGCAAACTCGAATTCATCATGTATGGAGCTATCAAA
GAAAATTGCAGAGCGGCTAGGGGTGGAGATGGGCAAAGTGCAGGTTTACCAGGAACCTAA
CAGAGAAACAAGAGTACAAATTCAAGAGTCTGTGAGGGGAAAAGATGTTTTCATCATCCA
AACTGTTTCGAAGGACGTGAACACCACCATCATGGAGCTCCTGATCATGGTGTATGCATG
TAAGACCTCTTGTGCCAAGAGCATCATTGGCGTGATACCCTACTTTCCTTAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002767 unedited
CACGCGGCACGCAATCTANAATCGAGTTTTTTTTTTTTTTTTTAGATTTAGCTTTCATT
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AGTTTTTATTCCTTTTTTAGTTGCAGAAAATAAATACAATCACATATTCCATATGCTTGT
CTACAAAAGCATCTCTAAAAATGTCATTTACTGGACTTGACAGTATAATCTTTTCGGCTT
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CCATTGTGGATCCGACGGATCGCCTCTGAAAGGATCATGCTGATATCCACAGTTTTAATA
CTTGGGGCACTGGAGCTTCTGGACTTCATGTGGAATTGTATTGGTGACCACCACCTCATC
AATGGCAGACTCTTCAATCCGCCGGGGGGCGTCAGAAGACAACAGCCCTAGATTGCCATC
ACAAGATCTATATGCACCTCTTTCTTTAGGTCTCTGCTGCACAAGATGCTGTCACATCTC
AATGATGTCTCCACCAGAAGGCATCCTTCCTCCACTAC

Restriction Sites: NotI-NotI

ACCN: NM_002767

Insert Size: 2130 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).