

Product datasheet for SC118398

PRPS2 (NM_002765) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRPS2 (NM_002765) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRPS2
Synonyms:	PRSII
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118398 sequence for NM_002765 edited (data generated by NextGen Sequencing)

```

ATGCCCAACATCGTGCTGTTTCAGCGGCAGCTCGCATCAGGACCTGTCCCAGCGCGTGCC
GACCGCCTGGCCCTGGAGCTGGGCAAGGTGGTCACGAAGAAGTTACGCAACCAGGAGACC
AGCGTGGAGATTGGTAAAGCGTGAGAGGGGAAGATGTCTACATCATCCAGAGCGGCTGC
GGGAAATTAACGACAACCTGATGGAACCTCATCATGATCAATGCCTGCAAGATTGCG
TCATCATCCAGAGTAACTGCCGTGATCCCCTGTTTCCCATACGCCGACAAGATAAAAAG
GACAAGAGTCGTGCCCAATTTCTGCAAACTTGTGGCCAATATGCTGTCGGTGGCTGGG
GCGGATCACATCATCACCATGGACCTGCATGCTTCTCAGATACAGGGATTCTTTGATATT
CCTGTGGATAATTTGTATGCGGAGCCCGCAGTCCTGCAGTGGATTCCGGAAAACATTGCC
GAGTGGAAAGAACTGTATCATTGTTTACCTGACGCAGGGGAGCCAAAAGGGTTACATCA
ATTGCAGACAGGTTGAATGTGGAATTTGCTTTGATCCACAAAGAGAGGAAGAAGGCGAAT
GAAGTGGACCGGATGGTCTGTTGGGCGACGTGAAGGACCGTGTGGCCATCCTCGTGGAT
GACATGGCTGACACTTGCGGCACCATCTGCCATGCTGCGGACAAGCTGCTGTCAGCTGGA
GCCACCAAAGTGTATGCTATCCTTACCCATGGGATCTTCTCTGGACCAGCTATTTCCAGA
ATAAATAATGCCGCTTTGAGGCTGTTGTCGTCAAAACAAATCCGCAAGAGGACAAA
ATGAAACACTGCACCAAGATTGAGGTCATTGACATTTCCATGATCTTGGCCGAAGCAATC
CGAAGGACACACAATGGGAATCCGTGTCCTACCTGTTTCAGCCATGTCCCCTATAA

```

Clone variation with respect to NM_002765.4



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002765 unedited NNGGTCAAATTTGTATACGACTCACTATAGGCGGCCGCGATTCCGGCACGAGGGTCGCTG TCGCTGTTGCCTCCGCCACCTCTCCGCCGCCGCGCCCTCGGAGTTCGCGCCCCAC CATGCCAACATCGTGTGTTACAGCGGCAGCTCGCATCAGGACCTGTCCCAGCGCGTGGC CGACCCCTGGCCTGGAGCTGGCAAGGTGGTCACGAAGAAGTTCAGCAACCAGGAGAC CAGCGTGGAGATTGGTGAAGCGTGAGAGGGGAAGATGTCTACATCATCCAGAGCGGCTG CGGGAAATTAACGACAACCTGATGGAACCTCTCATCATGATCAATGCCTGCAAGATTGC GTCATCATCCAGAGTAAGTGCCTGATCCCGTGTTCATACGCCGACAAAGATAAAAA GGACAAGAGTCGTGCCCAATTTCTGCAAACTTGTGGCCAATATGCTGTGCGGTGGCTGG GGCGGATCACATCATCACCATGGACCTGCATGCTTCTCAGATACAGGGATTCTTTGATAT TCCTGTGGATAATTTGTATGCGGAGCCCGCAGTCTGCAGTGGATTGGGAAAACATTGC CGAGTGGAAAGAACTGTATCATTGTTTACCTGACGCAGGGGGAGCCAAAAGGGTTACATC AATTGCAGACAGGTTGAATGGTGGGATTGCTTTGATCCACAAAGAGAGGGAAGAAGGCG AATGGAAGTGGCCCGGATGGTCCCTGGTGGNGACCGTGAAAGAACCCGTTGTGGCC ATCCCTCGTTGGGATGACCATGGCTGGACACTTTCGGGGCACCATTCTGCCATGNCTGC GGNACAAGGCTGCTGTCCAAGCTGGAGCCACCCAAGAGTGTATGGCTATCCCTACCCCT GGGGATCTTTCTCTGGGACCAGCTAATTTCCAGN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002765 unedited CGGCCGAATCTANAATCGAGTT TTTTTTTTTTTTTTTTTTTTTTTTTTGAACCCCCCAAAAAGATTTTATTGAAAGGTTTTAA TACCGGGTAAAGGATTTTAAAAATTTACTTTTTAAACCAAAACAAGCCCTGGAAAGGAA ATACCCCGAATTTAGTGGGGGAGTATCTAAAAAAAAGGGGTCTTTTGGATTTTTTT AAGTGGACTAAGGAATTTAAGGGGGGGTAAACAAAAAATTTGGGAAATTCAAATTT CTCTGGCCCCCGTTTTGGCCAAAAAATGCCAGGGCCCCCCCCCTTTAATAAAATTGGA CCGGACCCAGGGTTTTGGGGGGCTCACTTAAGTTTCCCCCGGAGCCCAAAAAGGG CCAAATTTGGGATTAAGTGGTCCAAAAAAGTTTTTATTACCTTTGGGAACGGGAAAC CCCAAAAAGGCAAGGGCTGAATTTCCATTGGGGGGGGTAAAACCAACCCATTGGGTCA TAAATGGTTTTGAAGGGTTTTAAAAACAAGGGGGGCTAAAAATGAAAAAACCT CAGTTTTTAATCAAAAAAGACAAGGCAGGGTCTATATTCTTTTTAAAAATCTGGAAA CATTATTTTAAACAAGCCCTATACCTTCTTAGGCTTTAAATTTAAACTTAACCGAAAGG AATCCCTTTAAACCCGGGGCTTTAGGCCCTGGGAGTGCCCAAAAAATTTTGAATTTT AGGAGCCCCCTTTCCGAATGGAAGTTTGTAAAAAGGGCTTTAAAAAGGACCCAAAAC CCTGTCTGAATTGGTAAGGTTCCCCCAAGGGTGCGGGGCCATATTACCTAAAAATTGG CCAATAACCCCAACCGAGGGTTTTGAACCGTTTTCAAAAAACAAGGGAATCN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002765
Insert Size:	2620 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:	<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_002765.2 , NP_002756.1
RefSeq Size:	2517 bp
RefSeq ORF:	957 bp
Locus ID:	5634
UniProt ID:	P11908
Cytogenetics:	Xp22.2
Domains:	Pribosyltran
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Pentose phosphate pathway, Purine metabolism
Gene Summary:	<p>This gene encodes a phosphoribosyl pyrophosphate synthetase that plays a central role in the synthesis of purines and pyrimidines. The encoded protein catalyzes the synthesis of 5-phosphoribosyl 1-pyrophosphate from ATP and D-ribose 5-phosphate. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.</p>