

Product datasheet for **SC319482**

PRPS1 (NM_002764) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRPS1 (NM_002764) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRPS1
Synonyms:	ARTS; CMTX5; DFN2; DFNX1; PPRibP; PRS-I; PRSI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002764.2
 GCAACGCAAAGCGCTTGGTATTGAGTCTGTGGCCGACTTCGGTCCGGTCTCTGCAGCAG
 CCGTGATCGCTTAGTGGAGTGCTTAGGGTAGTTGGCCAGGATGCCGAATATCAAAATCTT
 CAGCGGCAGCTCCCACCAGGACTTATCTCAGAAAATTGCTGACCGCTGGGCCTGGAGCT
 AGGCAAGTGGTACTAAGAAATTCAGCAACCAGGAGACCTGTGTGAAAATTGGTGAAAG
 TGTACGTGGAGAGGATGTCTACATTGTTTCAGAGTGGTTGTGGCGAAATCAATGACAATTT
 AATGGAGCTTTTGCATGATTAATGCCTGCAAGATTGCTTCAGCCAGCCGGGTTACTGC
 AGTCATCCCATGCTTCCCTTATGCCCGCAGGATAAGAAAAGATAAGAGCCGGGCGCCAAT
 CTCAGCCAAGCTTGTGCAAATATGCTATCTGTAGCAGGTGCAGATCATATTATACCCAT
 GGACCTACATGCTTCTCAAATTCAGGGCTTTTTTATATCCCAGTAGACAATTTGTATGC
 AGAGCCGGCTGCTCTAAAGTGGATAAGGGAGAATATCTCTGAGTGGAGGAACTGCACTAT
 TGTCTCACCTGATGCTGGTGGAGCTAAGAGAGTGACCTCCATTGCAGACAGGCTGAATGT
 GGACTTTGCCTTGATTCACAAAGAACGGAAGAAGGCCAATGAAGTGGACCGCATGGTGCT
 TGTGGGAGATGTGAAGGATCGGGTGGCCATCCTTGTGGATGACATGGCTGACACTGTGG
 CACAATCTGCCATGCAGCTGACAACTTCTCTCAGCTGGCGCCACCAGAGTTTATGCCAT
 CTTGACTCATGGAATCTTCTCCGGTCTCTATTCTCGCATCAACAACGCATGCTTTGA
 GGCAGTAGTAGTACCAATACCATACCTCAGGAGGACAAGATGAAGCATTGCTCCAAAAT
 ACAGGTGATTGACATCTCTATGATCCTTGCAGAAGCCATCAGGAGAACTCACAATGGAGA
 ATCCGTTTCTTACCTATTCAGCCATGTCCTTTTATAATAGAGTAACTTCTGAGGCTTTTT
 GAGAATAAAATCCACCCACCCTTGTTCCTTGGTATTTGATGACAAAATTCAGCAGAA
 GACCCGGCTTGTCCAGTGTAGCTTTCTACATCCCACATCAGGTATATTAGAGCTTATCC
 GAACTGGGAAAGACGGATTGAGATTAAGTCTGGGACCTCCTACCTGCATTATCTCATT
 CTGGCTTCCTTGATAATTCTGTGGGCCTTGCAGCTTAACTATAGCTCAGCTGCTGCAAG
 ATTTTCAGACTTTTGGAGATGTTGTGTGAGGGTGTGACTGTGACTGGGAAGCTCAGAC
 TACTTTGTATGTGAATGCTTCAGGGTTTTCTTTGTTGAGAACAAC TAGCAACAAAGGCAA
 CCCATGTGTGACCAGTTCTCCCCAAGGTCTATGCTAAATTATAGCAAGAGCCCTGGGCAA
 CCCCAAACCTAGTCTGGTAGCTGAGCACCTGTAAGGCAGGAGCAGGCAGCTCAGCTTG
 AGCAGACATTGGGTGGGGGTGGGGGTGGTTGAGGGGGAGGCAGCACAGTGCAGCAA
 TGTTTCTGGGAGGAAGAAGCCTGATCCATCACCATCTGCTTGACTATGTAGCTTGGATT
 CTCCTTTGACCTATCCCTTTGATTTGGCTTTACCTTCATCTATCTTGATCCTTTCTG
 GCCAAATATCCTCTTGGGCCAAATGAACATTGTACCATAGTCTTCTGGAAGCAACAT
 GCTTCCTGCTATGTAATTGCTAACATTCATATTAGATGATGTGCTGTAGCTTGATCTTC
 TTAGCCTACTGCCACTGAGGCAGTAGGTTTTAGGTGGTATCGTAGTGCCTTTTGATTAAT
 TTAAGTATTTAATTTTTCATCTTCTTCTTTGGATCTATTTGGCCTCTCAAATGAACTGAG
 ATTCCTGTAAAAAAGATTGATGTTATTGTCTTGTAGAGGAACTAATAAAGTGTGTG
 TACCTGTGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002764

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_002764.2 , NP_002755.1
RefSeq Size:	2078 bp
RefSeq ORF:	957 bp
Locus ID:	5631
UniProt ID:	P60891
Cytogenetics:	Xq22.3
Domains:	Pribosyltran
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Pentose phosphate pathway, Purine metabolism
Gene Summary:	<p>This gene encodes an enzyme that catalyzes the phosphoribosylation of ribose 5-phosphate to 5-phosphoribosyl-1-pyrophosphate, which is necessary for purine metabolism and nucleotide biosynthesis. Defects in this gene are a cause of phosphoribosylpyrophosphate synthetase superactivity, Charcot-Marie-Tooth disease X-linked recessive type 5 and Arts Syndrome. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>