

## Product datasheet for **SC126124**

### PRPS1L1 (NM\_175886) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRPS1L1 (NM_175886) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRPS1L1
Synonyms:	PRPS1; PRPS3; PRPSL; PRS-III
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_175886 edited  
 GGGGAGCTGGATCGCTCGACGGAGTGCCTCTGGTAGTTGGCCAAGACGCCGAATATCAAA  
 ATCTTCAGCGGCAGCTCCACCAGGACTTATCCCAGAAAATTGCTGACCGCCTGGGCCTG  
 GAGCTAGGCAAGGTGGTGACTAAGAAAATTCAGCAACCAGGAGACCTGCGTGAAATTGAT  
 GAGAGTGTGCGTGGAGAGGATGTCTACATCGTTTCAGAGTGGTTGTGGCGAAATCAACGAC  
 AGTCTAATGGAGCTTTTGATCATGATTAATGCCTGCAAGATTGCTTCAGCTAGCCGAGTT  
 ACTGCAGTCATCCCATGCTTCCCTTATGCCCGACAGGATAAGAAGGATAAGAGCCGGTCC  
 CCAATCTCTGCCAAGCTTGTGCAAATATGCTCTCTATAGCAGGTGCGGATCATATCATC  
 ACCATGGACCTACATGCTTCTCAAATTCAGGGCTTTTTTGATATCCCAGTAGACAACCTG  
 TATGCAGAGCCAAGTGTCTGAAGTGGATAAAGGAGAATATCCCTGAGTGAAGAAGTGC  
 ATTATTGTCTCGCCAGATGCTGGTGGAGCTAAAAGAGTGACCTCCATTGCAGACCAGTTG  
 AATGTGGACTTTGCTTTGATTCAAAGAACGGAAGAAGGCCAATGAAGTGGACTGCATA  
 GTGCTAGTGGGAGATGTGAATGATCGTGTGGCTATCCTTGTAGATGACATGGCAGACACT  
 TGTGTTACAATCTGCCTCGCAGCTGACAAACTTCTCTCAGCTGGAGCAACCAGAGTTTAT  
 GCTATCTTGACTCATGGAATCTTTTCTGGCCAGCCATTTCTCGCATCAACACTGCATGC  
 TTTGAAGCAGTGGTAGTCACCAATACCATACCTCAAGATGATAAGATGAAGCATTGCTCC  
 AAAATACGAGTAATTGACATCTCCATGATCCTTGCAGAAGCCATAAAGGAGAACTCATAAT  
 GGGGAATCTGTTTCCTACCTGTTTCAGCCATGTTCTTTTATAACAGAATAAATTCTAGTT  
 ATGCTATTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_175886 unedited TCGGTTCATATTTGTATACGACTCATATAGGCGGCCGCGTAATTCGCCATTACGGCCGGG GAGCTGGATCGCTCGACGGATGCCTCTGGTAGTTGGCCAAGACGCCGAATATCAAATCT TCAGCGGCAGCTCCCACCAGGACTTATCCAGAAAATTGCTGACCGCCTGGGCTGGAGC TAGGCAAGGTGGTGACTAAGAAATTCAGCAACCAGGAGACCTGCGTGAAATGATGAGA GTGTGCGTGGAGAGGATGTCTACATCGTTCAGAGTGGTTGTGGCGAAATCAACGACAGTC TAATGGAGCTTTTGATCATGATTAATGCCTGCAAGATTGCTTCAGCTAGCCGAGTTACTG CAGTCATCCCATGCTTCCCTTATGCCCGACAGGATAAGAAGGATAAGAGCCGGTCCCAA TCTCTGCCAAGCTTGTTCAAATATGCTCTCTATAGCAGGTGCGGATCATATCATACCA TGGACCTACATGCTTCTCAAATTCAGGGCTTTTTTATATCCCAGTAGACAACTGTATG CAGAGCCAAGTGCCTGAAGTGGATAAGGGAGAATATCCCTGAGTGAAGAAGTGCATTA TTGTCTCGCCAGATGCTGGTGGAGCTAANAGAGTGACCTCCATTGCAGACCAGTTGAATG TGGACTTTGCTTTGATTCATAAAGAACGGAAGAAGCCAATGAAGTGGACTGCATAGTGC TAGTGGGAGATGTGAATGATCGTGTGGCTATCCTTGTAGATGACATGGCAGACACTTGTG TTACAATCTGCCTCGCAGCTGAACAACCTCTCTCAGCTGGAGCAACCAGATTTATGCTA TCTTGACTCATGGAATCTTTTCTGGCCACCATTCTCGCATCACACTGCATGCTTTGAA GCAGTGAANCAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_175886
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_175886.2</a> , <a href="#">NP_787082.1</a>
<b>RefSeq Size:</b>	1091 bp
<b>RefSeq ORF:</b>	957 bp
<b>Locus ID:</b>	221823
<b>UniProt ID:</b>	<a href="#">P21108</a>
<b>Cytogenetics:</b>	7p21.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Pentose phosphate pathway, Purine metabolism

**Gene Summary:**

This intronless gene is specifically expressed in the testis, and encodes a protein that is highly homologous to the two subunits of phosphoribosylpyrophosphate synthetase encoded by human X-linked genes, PRPS1 and PRPS2. These enzymes convert pyrimidine, purine or pyridine bases to the corresponding ribonucleoside monophosphates. In vitro transcription/translation and site-directed mutagenesis studies indicate that translation of this mRNA initiates exclusively at a non-AUG (ACG) codon. [provided by RefSeq, Jul 2008]