

## Product datasheet for **RG209392**

### PRPS1L1 (NM\_175886) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRPS1L1 (NM_175886) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRPS1L1
Synonyms:	PRPS1; PRPS3; PRPSL; PRS-III
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209392 representing NM_175886 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ACGCCGAATATCAAAATCTTCAGCGGCAGCTCCCACCAGGACTTATCCCAGAAAATTGCTGACCGCCTGG  
GCCTGGAGCTAGGCAAGGTGGTGACTAAGAAATTCAGCAACCAGGAGACCTGCGTGAAATTGATGAGAG  
TGTGCGTGGAGAGGATGTCTACATCGTTCAGAGTGGTTGTGGCGAAATCAACGACAGTCTAATGGAGCTT  
TTGATCATGATTAATGCCTGCAAGATTGCTTCAGCTAGCCGAGTTACTGCAGTCATCCCATGCTTCCCTT  
ATGCCCGACAGGATAAGAAGGATAAGAGCCGGTCCCAATCTCTGCCAAGCTTGTGCAAAATATGCTCTC  
TATAGCAGGTGCGGATCATATCATCACCATGGACCTACATGCTTCTCAAATTCAGGGCTTTTTTGATATC  
CCAGTAGACAACCTGTATGCAGAGCCAACCTGTCCTGAAGTGGATAAGGGAGAATATCCCTGAGTGGAGA  
ACTGCATTATTGTCTCGCCAGATGCTGGTGGAGCTAAAAGAGTGACCTCCATTGCAGACCAGTTGAATGT  
GGACTTTGCTTTGATTCTAAAGAACGGAAGAAGGCCAATGAAGTGGACTGCATAGTGTAGTGGGAGAT  
GTGAATGATCGTGTGGCTATCCTTGTAGATGACATGGCAGACACTTGTGTTACAATCTGCCTCGCAGCTG  
ACAAACTTCTCTCAGCTGGAGCAACCAGAGTTTATGCTATCTTGACTCATGGAATCTTTTCTGGCCCAGC  
CATTTCTCGCATCAACACTGCATGCTTTGAAGCAGTGGTAGTACCAATACCATACTCAAGATGATAAG  
ATGAAGCATTGCTCCAAAATACGAGTAATTGACATCTCCATGATCCTTGCAGAAGCCATAAGGAGAACTC  
ATAATGGGAATCTGTTTCTACCTGTTTCAGCCATGTTCTTTA

AC**CGCT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209392 representing NM\_175886  
Red=Cloning site Green=Tags(s)

TPNIKIFSGSSHQDL S QKIADRLGLEL GKVVTKKFSNQETC VEIDESVRGEDVYIVQSGCGEINDSLMEL  
 LIMINACKIASASRVTA VIPCFPYARQDKKDKSRSPISAKLVANMLSIAGADHII TMDLHASQIQGFFDI  
 PVDNLYAEPTVLKWIRENIP EWKNCII VSPDAGGAKRVTSIADQLNVDFAL IHKERRKKANEVDCI VLVD  
 VNDRVAILVDDMADTCVTICLAADKLLSAGATRVYAIL THGIFSGPAISRINTACFEAVVNTNTIPQDDK  
 MKHCSKIRVIDISMILAEAIRRTHNGESVSYLFSHVPL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_175886

**ORF Size:** 954 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\\_175886.2](#), [NP\\_787082.1](#)

**RefSeq Size:** 1091 bp

**RefSeq ORF:** 957 bp

**Locus ID:** 221823

**UniProt ID:** [P21108](#)

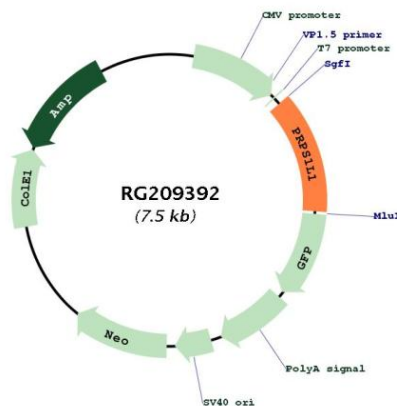
**Cytogenetics:** 7p21.1

**Protein Families:** Druggable Genome

**Protein Pathways:** 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]

### Product images:



Circular map for RG209392