

Product datasheet for RG231683

PRPS1 (NM_001204402) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

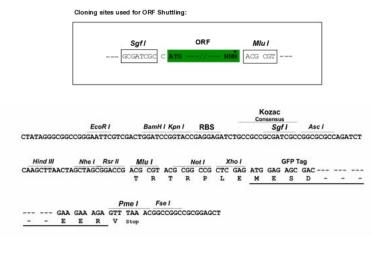
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Product Type:	Expression Plasmids
Product Name:	PRPS1 (NM_001204402) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRPS1
Synonyms:	ARTS; CMTX5; DFN2; DFNX1; PPRibP; PRS-I; PRSI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG231683 representing NM_001204402 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGTGCTTGTGGGAGATGTGAAGGATCGGGTGGCCATCCTTGTGGATGACATGGCTGACACTTGTGGCA CAATCTGCCATGCAGCTGACAAACTTCTCTCAGCTGGCGCCACCAGAGTTTATGCCATCTTGACTCATGG AATCTTCTCCGGTCCTGCTATTTCTCGCATCAACAACGCATGCTTTGAGGCAGTAGTAGTCACCAATACC ATACCTCAGGAGGACAAGATGAAGCATTGCTCCAAAATACAGGTGATTGACATCTCTATGATCCTTGCAG AAGCCATCAGGAGAACTCACAATGGAGAATCCGTTTCTTACCTATTCAGCCATGTCCCTTTA
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	<pre>>RG231683 representing NM_001204402 Red=Cloning site Green=Tags(s)</pre>
	MVLVGDVKDRVAILVDDMADTCGTICHAADKLLSAGATRVYAILTHGIFSGPAISRINNACFEAVVVTNT IPQEDKMKHCSKIQVIDISMILAEAIRRTHNGESVSYLFSHVPL
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul

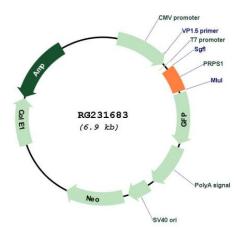


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Cloning Scheme:



Plasmid Map:



ACCN:	
ORF Size:	
OTI Disclaimer:	

NM_001204402

342 bp

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. <u>More info</u>

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PRPS1 (NM_001204402) Human Tagged ORF Clone – RG231683	
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001204402.1, NP 001191331.1</u>
RefSeq Size:	1748 bp
RefSeq ORF:	345 bp
Locus ID:	5631
UniProt ID:	<u>P60891</u>
Cytogenetics:	Xq22.3
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Pentose phosphate pathway, Purine metabolism
Gene Summary:	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]

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