

Product datasheet for **MG204599**

Prps1 (NM_021463) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prps1 (NM_021463) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prps1
Synonyms:	2310010D17Rik; C76571; C76678; Prps-1; PRS-I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204599 representing NM_021463 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGAATATCAAAATCTTCAGCGGGAGCTCCCACCAGGACTTATCCCAGAAAATCGCTGACCGCCTGG
GCCTTGAGCTAGGCAAGGTGGTACTAAGAAATTCAGCAACCAGGAGACCTGTGTGGAAATTGGCGAAAG
CGTTCGTGGAGAAGATGTCTACATTGTTCAAAGTGGGTGTGGTGAGATAAATGACAATCTAATGGAGCTT
TTGATCATGATTAATGCTTGAAGATCGCTTCAGCCAGCCGGTACTGCAGTCATCCCATGCTTCCCTT
ACGCCCGCAAGATAAGAAGGATAAGAGCCGGCTCCAATCTCAGCTAAGCTTGTGCAAAATATGCTATC
TGTAGCAGGTGCAGATCATATTACCCATGGATCTACATGCATCTCAAATTCAGGGTTTCTTTGATATC
CCGGTGGACAATTTATATGCAGAGCCAGCTGTCCTAAAGTGGATACGGGAGAATATATCTGAGTGGAGAA
ACTGTACTATTGTCTCACCTGATGCTGGTGGAGCCAAAAGAGTGACCTCCATTGCAGACCGGCTGAATGT
GGATTTTGCTTTGATTCACAAGGAACGGAAGAAGGCCAATGAAGTGGACCGCATGGTACTTGTGGGAGAT
GTGAAGGACCGTGGCTATACTTGTGGATGACATGGCTGACACTTGGGTACAATCTGTACGCCGCTG
ACAAACTTCTCAGCTGGCGTACCAGAGTTTATGCTATCTTGACGCATGGAATCTTTTCTGGCCCTGC
CATTTCTCGAATCAACAATGCATGCTTTGAAGCAGTAGTAGTTACCAATACCATACTCAGGAGGACAAG
ATGAAACTGCTCCAAGATACAGGTGATTGACATCTATGATCCTTGCAGAAGCCATCAGGAGAACC
ACAATGGAGAATCTGTCTCCTACTTGTTCAGCCATGTTCTTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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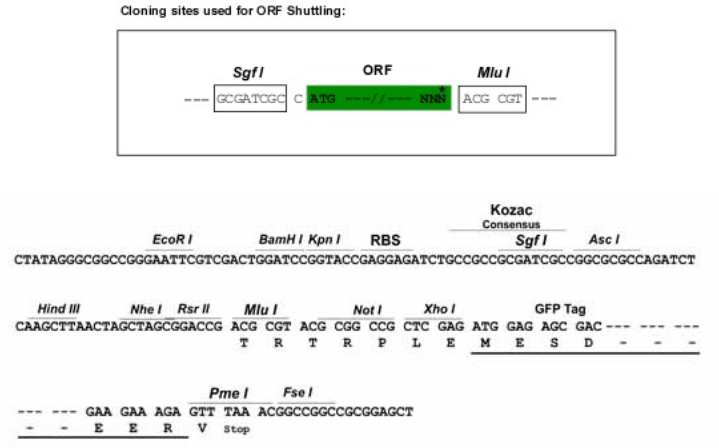
Protein Sequence: >MG204599 representing NM_021463
Red=Cloning site Green=Tags(s)

MPNIKIFSGSSHQDL SQKIADRLGLEL GKVVTKKFSNQETCVEIGESVRGEDVYIVQSGCGEINDNL MEL
 LIMINACKIASASRVTAVIPCFPYARQDKKDSRAPISAKLVANMLSVAGADHII TMDLHASQIQGFFDI
 PVDNLYAEPV LKWIRE NISEWRNCTIVSPDAGGAKRVTSIADRLNVDFAL IHKERKKANEVDRMVLVGD
 VKDRVAILVDDMADTCGTICHAADKLLSAGATRVYAIL THGIFSGPAISRINNACFEAVVTNTIPQEDK
 MKHC SKIQVIDISMILAEAIRRTHNGESVSYLFSHVPL

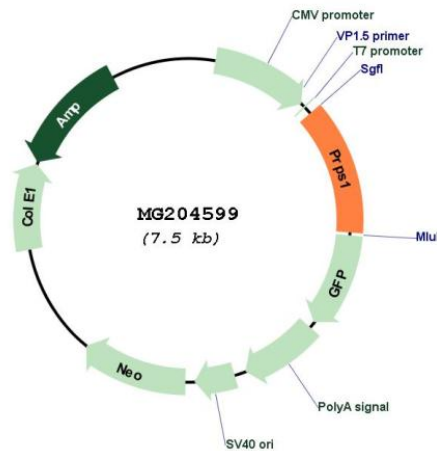
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021463

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:	<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_021463.4 , NP_067438.1
RefSeq Size:	1998 bp
RefSeq ORF:	957 bp
Locus ID:	19139
UniProt ID:	Q9D7G0
Cytogenetics:	X 61.35 cM
Gene Summary:	Catalyzes the synthesis of phosphoribosylpyrophosphate (PRPP) that is essential for nucleotide synthesis.[UniProtKB/Swiss-Prot Function]