

Product datasheet for **MG205678**

Prpsap2 (BC023178) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prpsap2 (BC023178) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prpsap2
Synonyms:	MGC36957
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205678 representing BC023178 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTTGTGTGGCGCCTCCTGAATTAGAAACCAAGATGAACATAACCAAAGGAGGCCTCGTGTGTTTT
CAGCAAATCCAATTCATCATGTATGGAGCTTTCAAAGAAAATTGCTGAGCGGCTGGGGTGGAGATGGG
CAAAGTGCAGGTTTACCAGGAACCTAACAGAGAAACAAGAGTTCAAATCCAGGAGTCTGTGAGAGGAAAA
GATGTATTTATCATCAAACCATCTCAAAGGACGTGAACACCACCATCATGGAGCTGCTGATCATGGTAT
ATGCATGTAAGACCTCATGTGCCAAGAGCATCATCGGAGTGATCCCTACTTTCTTATAGCAAGCAATG
CAAAATGAGAAAAAGGGGCTCCATTGTCTCAAAATTGCTGGCTTCTATGATGTGCAAAGCTGGTCTGACT
CATCTCATCACTATGGATTTACACCAGAAGGAAATCCAGGGCTTCTTCAATATCCAGTGGATAATTTAA
GAGCCTCCCCATTCCTGTACAATATTTCAAGAAGAGATCCCAGATTATAGGAATGCAGTCATCGTGGC
CAAGTCTCCAGCCTCAGCCAAGAGGGCACAATCTTTTGCAGAGCGTCTACGTCTGGGAATCGCAGTGATC
CATGGAGAAGCACAGGATGCTGAGTCTGACTTGGTGGATGGCCGGCACTCCCACCAATGGTCAGGAGTG
TAGCTGCCATCCATCCCAGCCTGGAGATCCCGATGCTGATTCTTAAGAGAAGCCCCCAATCACAGTTGT
TGGTGTGTTGGAGGAAGAATCGCCATCATTGTGGATGACATTATTGATGATGTGGATAGCTTTCTTGCT
GCAGCAGAGACCCTGAAGGAAAGAGGTGCATAACAAGATCTTTGTGATGGCCACTCAGGCTGTTATCCT
CTGATGCTCCCCGGCTGATTGAAGAGTCTGCCATTGATGAGGTGGTGGTCACTAACACGATCCCACACGA
GATCCAGAAGCTGCAGTGCCCCAAGATCAAGACTGTGGACATCAGCATGATCCTCTCAGAAGCCATCCGC
CGAATTCACAACGGGGAGTCCATGTCCTACCTTTTCAGAAACATAGGCTTAGATGAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205678 representing BC023178
Red=Cloning site Green=Tags(s)

MFCVAPPELETKMNITKGGVLVFSANSNSSCMELSKKIAERLGVEMGKVQVYQEPNRETRVQIQESVRGK
 DVFIIQTISKDVNTTIMELLIMVYACKTSCAKSIIGVIPYFPYSKQCKMRKRSIVSKLLASMMCKAGLT
 HLITMDLHQKEIQGFFNIPVDNLRASPFLLYIQEEIPDYRNAVIVAKSPASAKRAQSFAERLRLGI
 HGEAQDAESDLVDGRHSPPMVRVAAIHPSLEIPMLIPKEKPPITVVGDVGGRIAIIVDDIIDDVDSFLA
 AAETLKERGAYKIFVMATHGLLSSDAPRLIEESAIDEVVVNTNIPHEIQKLQCPKIKTVDISMILSEAIR
 RIHNGESMSYLFRNIGLDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC023178

ORF Size: 1109 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: [BC023178](#), [AAH23178](#)

RefSeq Size: 1857 bp

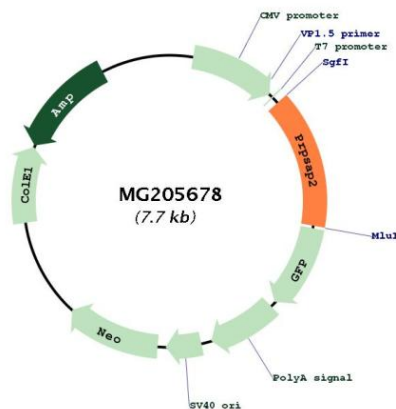
RefSeq ORF: 1109 bp

Locus ID: 212627

Cytogenetics: 11 B2

Gene Summary: Seems to play a negative regulatory role in 5-phosphoribose 1-diphosphate synthesis. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205678