

## Product datasheet for MR223770

### Prpsap2 (NM\_001164242) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prpsap2 (NM_001164242) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prpsap2
Synonyms:	A230054F23Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223770 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTTGTGTGGCGCCTCCTGAATTAGAAACCAAGATGAACATAACCAAAGGAGGCCTCGTGTGTTTT  
CAGCAAATCCAATTCATCATGTATGGAGCTTTCAAAGAAAATTGCTGAGCGGCTGGGGTGGAGATGGG  
CAAAGTGCAGGTTTACCAGGAACCTAACAGAGAAACAAGAGTTCAAATCCAGGAGTCTGTGAGAGGAAAA  
GATGTATTTATCATCAAACCATCTCAAAGGACGTGAACACCACCATCATGGAGCTGCTGATCATGGTAT  
ATGCATGTAAGACCTCATGTGCCAAGAGCATCATCGGAGTGATCCCTACTTTCTTATAGCAAGCAATG  
CAAAATGAGAAAAAGGGCTCCATTGTCTCAAAATTGCTGGCTTCTATGATGTGCAAAGCTGGTCTGACT  
CATCTCATCACTATGGATTTACACCAGAAGGAAATCCAGGGCTTCTTCAATATCCAGTGGATAATTTAA  
GAGCCTCCCCATTCCTGTACAATATTTCAAGAAGAGATCCCAGATTATAGGAATGCAGTCATCGTGGC  
CAAGTCTCCAGCCTCAGCCAAGAGGGCACAATCTTTTGCAGAGCGTCTACGTCTGGGAATCGCAGTGATC  
CATGGAGAAGCACAGGATGCTGAGTCTGACTTGGTGGATGGCCGGCACTCCCCACCAATGGTCAGGAGTG  
TAGCTGCCATCCATCCCAGCCTGGAGATCCCGATGCTGATTCTTAAAGAGAAGCCCCCAATCACAGTTGT  
TGGTGTATGTTGGAGGAAGAATCGCCATCATTGTGGATGACATTATTGATGATGTGGATAGCTTTCTTGCT  
GCAGCAGAGACCCTGAAGGAAAGAGGTGCATACAAGATCTTTGTGATGGCCACTCAGGCTGTTATCCT  
CTGATGCTCCCCGGCTGATTGAAGAGTCTGCCATTGATGAGGTGGTGGTCACTAACACGATCCCACACGA  
GATCCAGAAGCTGCAGTGCCCCAAGATCAAGACTGTGGACATCAGCATGATCCTCTCAGAAGCCATCCGC  
CGAATTCACAACGGGAGTCCATGTCCTACCTTTTCAAGAAACATAGGCTTAGATGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR223770 protein sequence  
 Red=Cloning site Green=Tags(s)

MFCVAPPELETKMNITKGGVLVFSANSNSSCMELSKKIAERLGVEMGKVQVYQEPNRETRVQIQESVRGK  
 DVFIIQTISKDVNTTIMELLIMVYACKTSCAKSIIGVIPYFPYSKQCKMRKRSIVSKLLASMMCKAGLT  
 HLITMDLHQKEIQGFNIPVDNLRASPFLQYIQEEIPDYRNAVIVAKSPASAKRAQSFAERLRLGIAVI  
 HGEAQDAESDLVDRHSPPMVRSVAIIHPSLEIPMLIPKEKPPITVVGDVGGRIAIIVDDIIDDVDSFLA  
 AAETLKERGAYKIFVMATHGLLSSDAPRLIEESAIDEVVVNTNIPHEIQKLQCPKIKTVDISMILSEAIR  
 RIHNGESMSYLFRNIGLDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001164242

**ORF Size:** 1110 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\\_001164242.1](#), [NP\\_001157714.1](#)

**RefSeq Size:** 1771 bp

**RefSeq ORF:** 1110 bp

**Locus ID:** 212627

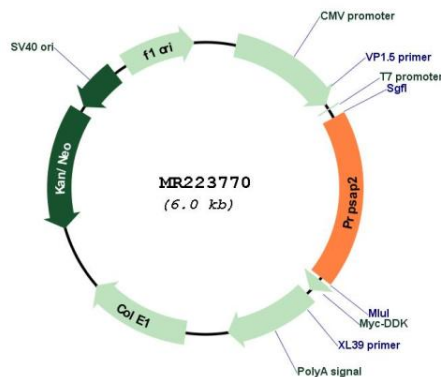
**UniProt ID:** [Q8R574](#)

**Cytogenetics:** 11 B2

**MW:** 40.9 kDa

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

## Product images:



Circular map for MR223770