

## Product datasheet for **RC233348**

### **DARPP32 (PPP1R1B) (NM\_001242464) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DARPP32 (PPP1R1B) (NM\_001242464) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** DARPP32  
**Synonyms:** DARPP-32; DARPP32  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233348 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCTGTTCCGGCTCTCAGAGCACTCCTCACCAGAGGAGGAAGCCTCCCCCACCAGAGAGCCTCAGGAG  
AGGGGCACCATCTCAAGTCGAAGAGACCAACCCCTGTGCCTACACACCACCTTCGCTGAAAGCTGTGCA  
GCGCATTGCTGAGTCTCACCTGCAGTCTATCAGCAATTTGAATGAGAACCAGGCCTCAGAGGAGGAGGAT  
GAGCTGGGGGAGCTTCGGGAGCTGGGTTATCCAAGAGAGGAAGATGAGGAGGAAGAGGAGGATGATGAAG  
AAGAGGAAGAAGAAGAGGACAGCCAGGCTGAAGTCTGAAGGTCATCAGGCAGTCTGCTGGGCAAAAGAC  
AACCTGTGGCCAGGGTCTGGAAGGGCCCTGGGAGCGCCACCCCTCTGGATGAGTCCGAGAGAGATGGA  
GGCTCTGAGGACCAAGTGAAGACCCAGCACTAAGTGAGCCTGGGAGGAACCTCAGCGCCCTCCCCCT  
CTGAGCCTGGCACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233348 protein sequence  
**Red=Cloning site Green=Tags(s)**

MLFRLSEHSSPEEEASPHQRASGEGHHLKSKRPNPCAYTPPSLKAVQRIAESHLQSIISNLNENQASEEED  
ELGELRELGYPREEDEEEEEDEEEEEEDSQAELVKVIRQSAGQKTTGGQLEGPWERPPPLDESERDQ  
GSEDQVEDPALSEPGEPPQRPSPEPGT

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6417\\_e11.zip](https://cdn.origene.com/chromatograms/mk6417_e11.zip)



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001242464

ORF Size: 504 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\\_001242464.2](#)

RefSeq Size: 1446 bp

RefSeq ORF: 507 bp

Locus ID: 84152

UniProt ID: [Q9UD71](#)

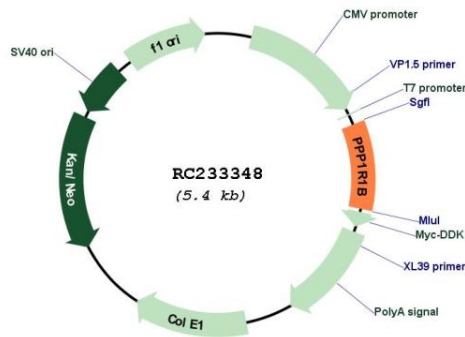
**Cytogenetics:** 17q12

**Protein Families:** Druggable Genome

**MW:** 18.7 kDa

**Gene Summary:** This gene encodes a bifunctional signal transduction molecule. Dopaminergic and glutamatergic receptor stimulation regulates its phosphorylation and function as a kinase or phosphatase inhibitor. As a target for dopamine, this gene may serve as a therapeutic target for neurologic and psychiatric disorders. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

**Product images:**



Circular map for RC233348