

Product datasheet for **RG201634**

PPP1R7 (NM_002712) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R7 (NM_002712) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP1R7
Synonyms:	SDS22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201634 representing NM_002712 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGGAACGCGCGCGGGCAGCAACAGTCGCAGGAGATGATGGAGTTGACAGGCGGGTCGAGT
CTGAAGAATCCGGCGATGAAGAAGGGAAGAAACACAGCAGTGGCATCGTGGCCGACCTCAGTGAACAGAG
CCTGAAGGATGGGAGGAGCGGGGGAGGAGGACCCAGAAGAAGACATGAGCTGCCTGTGGACATGGAA
ACCATCAACCTGGACAGAGATGCAGAGGATGTTGATTTGAATCACTATCGCATAGGAAGATTGAAGGAT
TTGAGGTACTGAAGAAAGTGAAGACTCTCTGCCTCCGCCAAAATTAATTAATGCATTGAGAATCTGGA
GGAGCTACAGAGTCTTCGAGAGCTGGATCTTTACGACAACCAGATCAAGAAGATTGAGAATCTGGAGCGG
CTAACAGAGCTGGAGATTCTAGATATTTCTTTAATCTGCTGAGAAACATCGAAGGGTTGACAAGTTGA
CACGACTGAAAAAATCTTCTTGGTCAACAATAAAATCAGTAAAAATTGAGAACTTAAGCAACTTACATCA
ACTACAGATGCTAGAGCTGGGATCTAACCAGCATCCGGCAATCGAAAATATCGACACCTTAACCAACCTG
GAGAGTTGTTTTGGGAAAAACAAAATTAATAAATTCAGAACCTGGATGCGCTACCAACCTGACAG
TCCTCAGTATGCAGAGCAACCGGCTGACCAAGATCGAGGGTCTGCAGAACCTGGTGAACCTGCGGGAGCT
GTACCTTAGCCACAATGGCATCGAGGTCATCGAGGGCTGGAGAACAATAACAACTCACGATGTTGGAC
ATTGCATCAAATAGAATCAAAAAGATTGAAAATATCAGCCATCTAACAGAGCTGCAAGAGTCTGGATGA
ACGACAATCTCCTTGAGAGCTGGAGCGACCTCGACGAGCTGAAGGGAGCCAGGAGCTGGAGACAGTGTA
CCTGGAGCGGAACCCCTTGCAGAAGGACCCCACTACCGCGGAAGGTCATGCTCGCCCTCCCCTCCGTG
CGGCAGATCGATGCCACGTTCTGTCAGGTTT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201634 representing NM_002712
 Red=Cloning site Green=Tags(s)

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  MAAERGAGQQSQEMMEVDRRVESEESGDDEEGKKHSSGIVADLSEQSLKDGEERGEEDPEEEHEL PVDME
  TINLDRDAEDVDLNHYRIGKIEGFEVLKVKVTLCLRQNLKICENLEELQSLRELDLYDNQIKKIENLEA
  LTELEILDISFNLLRNIEGVDKLTRLKKLFLVNNKISKIENLSNLHQLQMLELGSNRIRAIENIDTLTNL
  ESLFLGKNKITKLNLDALTNLTVLSMQSNRLTKIEGLQNLVNLRELYL SHNGIEVIEGLENNKLTMLD
  IASNRIKKIENISHLTELQEFWMNDNLLESWSDLDELKGARSLETVYLERNPLQKDPQYRRKVM LALPSV
  RQIDATFVRF
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002712

ORF Size: 1080 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_002712.3](#)

RefSeq Size: 1299 bp

RefSeq ORF: 1083 bp

Locus ID: 5510

UniProt ID: [Q15435](#)

Cytogenetics: 2q37.3

Domains: LRR, LRR_TYP, LRRcap, LRR_SD22

Protein Families: Druggable Genome, Phosphatase

Gene Summary: This gene encodes a protein subunit that regulates the activity of the serine/threonine phosphatase, protein phosphatase-1. The encoded protein is required for completion of the mitotic cycle and for targeting protein phosphatase-1 to mitotic kinetochores. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RG201634