

Product datasheet for **RG205346**

PPP2R1B (NM_181699) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP2R1B (NM_181699) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP2R1B
Synonyms:	PP2A-Abeta; PR65B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG205346 representing NM_181699
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCGGGCGCATCAGAGCTCGGGACCGCCAGGAGCAGCGGGTGGAGATGGAGATGATTTCGCTATACC
CGATCGCGGTTTTAATCGACGAGCTCCGCAATGAAGACGTGCAGCTCCGACTCAACAGTATTAAGAAGTT
ATCAACAATTGCCCTAGCACTTGGAGTAGAAAAGGACCCGAAGTGAATTGTTGCCATTTCTTACAGATACA
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GTCCTGACTTTGCCACTGTCTGCTGCCTCCTTTGGAAAATCTGGCAACTGTGGAAGAGACTGTTGTTCCG
TGACAAGGCTGTGGAGTCCCTGAGACAGATCTCCAGGAGCATACTCCTGTTGCTCTGGAAGCTTATTTT
GTACCTCTGGTGAACGCTTAGCAAGTGGGGATTGGTTACCTCTCGCACATCTGCATGTGGTTTGTTC
GCGTTTGCTATCCAGGGCATCAAATGCTGTTAAAGCAGAAATCAGACAGCAATTCGGTTCCTTGCTC
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TCCTTGCTGTGGAAGCTTGTGTCAGTATTGCCAGTATTGTCTCAGGATGACCTTGAGACTTTGGTGTAT
GCCTACACTTCGACAAGCAGCAGAAGATAAATCTTGGCGGTTCCGCTATATGGTGGCTGACAGATTTTCA
GAGCTCCAGAAAGCCATGGGTCTAAAAACACCCTAAATGACCTCATCCCCGCTTTTCCAGAACTACTTA
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TGAAGTAGAGAGACCATAATTAATGAATCAAATCTGCCTTATAAAAGGAATTAGTATCCGATACCAAT
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TATTCTGCATTAATGCACTGTCTGAGGCCTGTGGTCAGGAAATACTACTAAGCAAATGCTGCCATCGT
ATTAATAATGGCAGGAGACCAAGTAGCAAATGTTGCTTCAATGTGGCCAAATCTCTACAAAAGATTGGA
CCAATTCTAGATACCAATGCTTTACAGGGAGAAGTGAAGCCAGTACTACAGAAGTTAGGTCAAGATGAAG
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CCTGGAGAGGACATGGGGAAGGGACAGTGTATCAGTTGCGTGGAGATACTAGAGACACACTTGGCCAGC
TGGGAATTGCAGAGCTAGTGCATTTCTCCCAAAGCACAGAC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205346 representing NM_181699
Red=Cloning site Green=Tags(s)

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MAGASELGTGPGAAGGDGDDSLYPIAVLIDELRNEDVQLRLNSIKKLSTIALALGVERTRSELLPFLTDT
IYDEDEVLLALAEQLGNFTGLVGGPDFAHCLLPLENLATVEETVVRDKAVESLRQISQEHTPVVALEYF
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DSVKSEIVPLFTSLASDEQDSVRLLAVEACVSIQQLSQDDLETLVMPTRLRQAAEDKSWRVRYMVADRF
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QHVKSALASVIMGLSTILGKENTIEHLLPLFLAQLKDECPDVRLNII SNLDCVNEVIGIRLSQSLLPAI
VELAEDAKWRVRLAII EYMPLLAGQLGVEFFDEKLNSLCMAWLVHDVYAI REAATNNLMKLVQKFGTEWA
QNTIVPKVLMANDPNYLHRMTTLFCINALSEACGQEITTKQMLPIVLK MAGDQVANVRNVAKSLQKIG
PILDTNALQGEVKPVLQKLGQDEDMDVKYFAQEAI SVVAQRLRKLEFPVKDSGEPSPRADKNHFPRTV
PGEDMGKGPVYQLRGDTRDTLAQLGIAELVHFSQSTD
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181699

ORF Size: 2001 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_181699.1](#), [NP_859050.1](#)

RefSeq Size: 2139 bp

RefSeq ORF: 2004 bp

Locus ID: 5519

UniProt ID: [P30154](#)

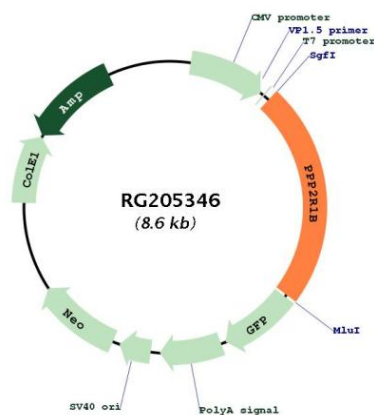
Cytogenetics: 11q23.1

Protein Families: Druggable Genome, Phosphatase, Transcription Factors

Protein Pathways: Long-term depression, Oocyte meiosis, TGF-beta signaling pathway, Tight junction, Wnt signaling pathway

Gene Summary: This gene encodes a constant regulatory subunit of protein phosphatase 2. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The constant regulatory subunit A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit. This gene encodes a beta isoform of the constant regulatory subunit A. Mutations in this gene have been associated with some lung and colon cancers. Alternatively spliced transcript variants have been described. [provided by RefSeq, Apr 2010]

Product images:



Circular map for RG205346

