

## Product datasheet for **RG230265**

### PPP2R1B (NM\_001177562) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                           |
| Product Name:             | PPP2R1B (NM_001177562) 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)                        |



[View online »](#)

**ORF Nucleotide Sequence:**

>RG230265 representing NM\_001177562  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGGCGCATCAGAGCTCGGGACCGCCAGGAGCAGCGGGTGGAGATGGAGATGATTTCGCTATACC  
 CGATCGCGGTTTTAATCGACGAGCTCCGCAATGAAGACGTGCAGCTCCGACTCAACAGTATTAAGAAGTT  
 ATCAACAATTGCCTAGCACTTGGAGTAGAAAAGGACCCGAAGTGAATTGTTGCCATTTCTTACAGATACA  
 ATTTATGATGAAGATGAGGTACTATTAGCTCTTGTCTGAGCAGCTGGGAAATTTCACTGGCCTAGTGGGAG  
 GTCCTGACTTTGCCACTGTCTGCTGCCTCTTTGGAAAATCTGGCAACTGTGGAAGAGACTGTTGTTTCG  
 TGACAAGGCTGTGGAGTCCCTGAGACAGATCTCCAGGAGCATACTCCTGTTGCTCTGGAAGCTTATTTT  
 GTACCTCTGGTGAACGCTTAGCAAGTGGGATTGGTTCACCTCTCGCACATCTGCATGTGGTTTGTTC  
 GCGTTTGTATCCAGGGCATCAATGCTGTTAAAGCAGAAATCAGACAGCAATTCGGTCTTGTGCTC  
 AGATGACACACCAATGGTACGACGTGCTGCTGCTCCAAATTTGGTGAATTTGCAAAAGTTTGGAAATTA  
 GACAGTGTGAAAAGTGAATTTGCCACTGTCTACTAGCTTAGCTTCAGATGAACAGGATTACAGTGCGCC  
 TCCTTGCTGTGGAAGCTTGTGTCAGTATTGCCAGTATTGTCTCAGGATGACCTTGAGACTTTGGTGTAT  
 GCCTACACTTCGACAAGCAGCAGAAGATAAATCTTGGCGGTTTCGCTATATGGTGGCTGACAGATTTTCA  
 GAGCTCCAGAAAGCCATGGGTCTAAAAACACCCTAAATGACCTCATCCCCGCCTTTCAGAACCTACTTA  
 AAGACTGTGAAGCTGAAGTCCGGGCAGCTGCTGCCACAAAGTAAAAGAAGTGGTGAGAAGTGGCCAT  
 TGAAGATAGAGAGACCATAATTAATGAATCAAAATCTGCCTTATAAAAGTGTCTGACGTTGTTGAAT  
 ATCATCTCCAATTTGGATTGTGTAATGAAGTATTGGAATCCGTCAGCTCTCTCAGTCTCTCCTTCCTG  
 CCATAGTGGAGCTGGCAGAAGATGCCAAATGGAGGGTCCGCTGGCCATCATTGAGTATATGCCGCTGCT  
 GGCAGGCCAGCTGGGTGTGGAATTCCTTGTGAAAAGCTGAATTCCTTATGTATGGCTTGGCTCGTGGAC  
 CATGTATACGCCATCCGAGAAGCTGCCACCAACAACTCATGAAACTAGTTCAGAAGTTTGGTACAGAGT  
 GGGCCCAAAATACTATTGTTCCCAAAGTGTAGTAATGGCAAATGATCCTAATTACTTGCATAGAATGAC  
 CACTTTATTCTGCATTAATGCACTGTCTGAGGCCTGTGGTCAAGAAATACTACTAAGCAAATGCTGCC  
 ATCGTATTAATAATGGCAGGAGACCAAGTAGCAAATGTTTCGCTTCAATGTGGCAAATCTCTACAAAAGA  
 TTGGACCAATTCTAGATACCAATGCTTTACAGGGAGAAGTGAAGCCAGTACTACAGAAGTTAGGTCAAGA  
 TGAAGACATGGATGTCAAATACTTTGCACAGGAAGCTATAAGTGTCTTGCATTGGCA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG230265 representing NM\_001177562  
 Red=Cloning site Green=Tags(s)

MAGASELGTGPGAAGGDGDDSLYPIAVLIDELRNEDVQLRLNSIKKLSTIALALGVERTRSELLPFLTDT  
 IYDEDEVLLALAEQLGNFTGLVGGPDFAHCLLPLENLATVEETVVRDKAVESLRQISQEHTPVALEAYF  
 VPLVKRLASGDWFTSRFSACGLFVVCYPRASNAVKAIEIRQQFRSLCSDDTPMVRRAAASKLGEFAKVLLE  
 DSVKSEIVPLFTSLASDEQDSVRLLAVEACVSIQQLSQDDLETLVMPTLRQAAEDKSWRVRYMADRFS  
 ELQKAMGPKITLNDLIPAFQNLKDCAEVRAAAAHKVKELGENLPIDRETIIMNQILPYIKCPDVRNLN  
 IISNLDVCNEVIGIRLSQSLPAIVELAEAKWRVRLAIEYMPLLAGQLGVEFFDEKLNLSLMAWLVD  
 HVYAIREAATNNLMKLVQKFGTEWAQNTIVPKVLMANDPNYLHRMTTLFCINALSEACQGEITTKQMLP  
 IIVLKMAGDQVANVRFNVAKSLQKIGPIIDTNALQGEVKPVLQKLGQDEDMVKYFAQEASVLA

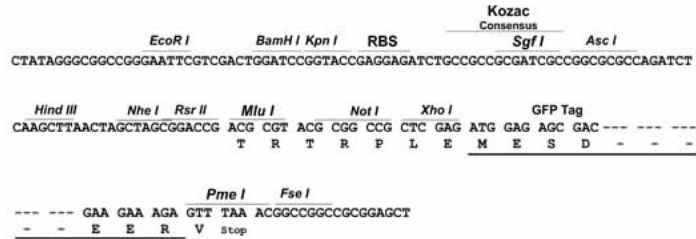
**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

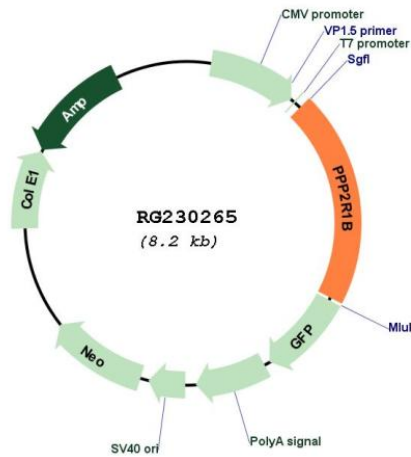
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



|                               |   |
|-------------------------------|---|
| <b>ACCN:</b>                  | NM_001177562  |
| <b>ORF Size:</b>              | 1668 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_001177562.2</a>  |
| <b>RefSeq Size:</b>           | 5470 bp   |
| <b>RefSeq ORF:</b>            | 1671 bp   |
| <b>Locus ID:</b>              | 5519  |
| <b>UniProt ID:</b>            | <a href="#">P30154</a>  |
| <b>Cytogenetics:</b>          | 11q23.1   |
| <b>Protein Families:</b>      | Druggable Genome, Phosphatase, Transcription Factors  |
| <b>Protein Pathways:</b>      | Long-term depression, Oocyte meiosis, TGF-beta signaling pathway, Tight junction, Wnt signaling pathway   |
| <b>Gene Summary:</b>          | 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] |