

## Product datasheet for **MG210249**

### Eif2b5 (NM\_172265) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | Eif2b5 (NM_172265) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                  |
| Symbol:                   | Eif2b5                                    |
| Synonyms:                 | C81315                                    |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                    |



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**ORF Nucleotide Sequence:**

>MG210249 representing NM\_172265  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGCCACTGCGGCGGTGCCTGGCGCTGCGGCCGGCCGAGCGAGCAAACGCGGCGGCGGCGCTCGG  
 GCGGCGGGGAACCCAAGGTGCGGAGGAGAGCCGCCGCCCTCCAGGCAGTTCTAGTGGCCGATAG  
 CTTCAACCGCGCTTCTTCCCATCTCCAAGGACCAGCCTCGGGTCTCTTGCCCTGGCCAACGTTGCG  
 CTAATTGACTATACTCTGGAGTTCCTGACTGCCACGGGTGTACAGGAAACATTTGTCTTTTGCTGCTGGA  
 AAGCTGCTCAGATCAAAGAACACTTACAGAAATCCAAGTGGTCCATCCTACGTCCCCAACGTTGTTCCG  
 GATAATCACATCAGAGCTATACCGATCACTAGGAGACGTCTCCGTGACGTGATGCCAAGGCCCTGGT  
 CGCTCTGACTTTCTTTGATATATGGAGATGTCATCTCAAATATCAATATCTGCAGAGCCCTGGAGGAAC  
 ACAGGTTAAGAAGGAAGCTAGAAAAAATGTCTCTGTGATGACAATGGTCTTCAAAGAGTCGTACCCAG  
 CCACCCTACACGCTGCCATGAGGACAACGTGGTGTGGTGTGGACAGCGCCACCAACAGGGTTCTTCAC  
 TTCCAGAAGACCAAGGCCCTCCGGCGCTTTTCCCTTCCATTGAGCCTGTTCCAGGGCAGTGGAGACGGAG  
 TGGAGATTCGATATGATTTGTTGGACTGTCACATCAGCATCTGCTCTCCTCAGGTAGCTCAGCTCTTCAC  
 AGACAATTTGACTACAAAACCTCGAGATGATTTGTACGAGGCATATTAATGAATGAGGAGGTCCTAGGA  
 AACCAGATTCACTTGCATGTGACAACTAGGGAATATGGTGCCCGGTCTCCAACCTACACATGACTCAG  
 CTGTTTGTGCTGACGTATCCGCCGATGGGTCTACCCTCACTCCAGAAGTAACTTCACTGACAGCAC  
 CACCCAGAGCTACACTATTCCCGACACAACATCTACCGAGGGCCTGAAGTCAGCCTGGGCCATGGCAGC  
 GTCCTGGAGGAAAATGTCTTTTGGGAGCTGGCACTGTATCGGCAGCAACTGCTCCATCACCAACAGTG  
 TCATCGGCCCTAACTGCCATATTGGTGATAATGTGGTACTGGACCAGGCCTACCTGTGGCAGGGAGTTCCG  
 AGTGGCTGCTGGAGCACAAATACACCAATCTCTGCTCTGTGACAGAGCTGAGGTCAAGGAGCGAGTCAAA  
 CTGAAGCCATACTGTGTTCTCACTTCCCAGGTGGTAGTGGGCCAGACATCACGCTGCCGAGGGCTCGG  
 TGATCTCTTTGCATCCTCCAGATGCAGAGGAAGATGAAGATGATGGCCAGTTTAGTGATGATTCTGGAGC  
 TGACCAAGAAAAGGAGAAAGTGAAGCTGAAAGGTTACAATCCAGCAGAAGTTGGCCTTGAAGGCCAGGGA  
 TACCTCTGAAAGCTGAGGGTGTGAACTCGAAAGAAGATGAGGAGCTACGGCAGAGTCTCTGGGGACTCA  
 TGATCAAGACGGAGGAGGAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT  
 AGCAGGCTCCCTCAGCTGGATGACATCAGAGTTTTCCAGAACGAGGTCCTGGGAACGCTGCAGCGGGC  
 AGAGAGGAGAACATCTCCTGTGAAAATCTAGTCTGGAGATCAACTCTCTCAAGCATGCCTACAACATTA  
 GCCTAAAGGAAGTATGACAGGTCCTGACCCTTGTAGTCTGGAGTTCCCTGCAACAAGTCGATGGCCT  
 GCTTGACCCAAACCGCTACTGTGCCTTGTGCTTCTCTGCTCAAGCCTGGAGCCCTGTTTAAAGGAAC  
 TACATAAAGCGTGCAGCTGACCATTGGAAGCATTGGCAGCCATTGAGGACTTCTTCTTGGAAATGAAA  
 CTCTCGTTACTTCCATGGCCAAGGTCCTGATGGCTTTCTACCAGCTGGAGATCTTGGCTGAGGAAACAAT  
 CTTGAGCTGGTTCAGCCAAAGAGACACAACCTGACGAAGGCCAGCAGTTACGGAAGAATCAACAGCTGCAG  
 AGGTTATCCAGTGGCTGAGAGAGGCAGAAGAAGAGTCATCCGAAGATGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210249 representing NM\_172265  
 Red=Cloning site Green=Tags(s)

MAATAAVPGAAAGRASKRGGGGSGGGTQGAEEEEPPPLQAVLVADSFNRRFFPISKDQPRVLLPLANVAL  
 IDYTLLEFLTATGVQETFVFCCKAAQIKEHLQKSKWCHPTSPNVVRIITSELYRSLGDVLRDVKALV  
 RSDFLLIYGDVISNINICRALEEHLRRLKLEKNVSVMTVMFKESSPSHPTRCHEDNVVMVAVDSATNRVLH  
 FQKTQGLRRFSFPLSLFQGGSGDVEIRYDLLDCHISICSPQVAQLFTDNFDYQTRDDFVRGILMNEEVLG  
 NQIHLHVTTREYGARVSNLHMYSAVCADVIRRWVYPLTPEVNFDTSTTQSYTHSRHNIYRGPEVSLGHGS  
 VLEENVLLGAGTVIGSNCSITNSVIGPNCHIGDNVVLQAYLWQGVRAAGAQIHQSLLCDRAEVKERVK  
 LKPYCVLTSQVVVGPDITLPEGSVISLHPPDAEEDEDDGQFSDSSGADQEKEKVKLKGYNPAEVGLEGGQ  
 YLWKAEGVNSKEDEELRQSLWGLMIKTEEESETESEGSVDPEELDSRAGSPQLDDIRVFQNEVLGTLQRG  
 REENISCNLVLINSLKHAYNISLKEVMQVLTLLVLEFPLQQVDGLLDPNRYCALLLPLLKAWSPVLRN  
 YIKRAADHLEALAAIEDFFLEHETLVTSMAKVLMAFYQLEILAEETILSWFSQRDITDEGQQLRKNQQLQ  
 RFIQWLEAEESSEDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

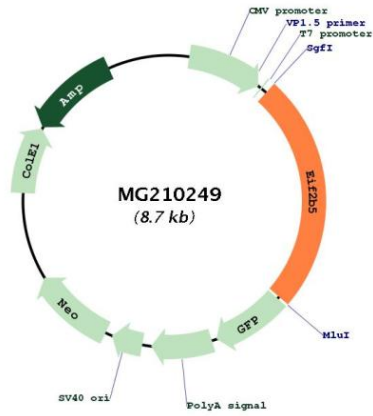


ACCN: NM\_172265

ORF Size: 2151 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p> |
| <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_172265.2</a> , <a href="#">NP_758469.1</a>  |
| <b>RefSeq Size:</b>           | 2556 bp  |
| <b>RefSeq ORF:</b>            | 2154 bp  |
| <b>Locus ID:</b>              | 224045   |
| <b>UniProt ID:</b>            | <a href="#">Q8CHW4</a>   |
| <b>Cytogenetics:</b>          | 16 A3  |
| <b>Gene Summary:</b>          | Catalyzes the exchange of eukaryotic initiation factor 2-bound GDP for GTP.[UniProtKB/Swiss-Prot Function]   |

Product images:



Circular map for MG210249