

Product datasheet for **MG217613**

Eif2b4 (NM_001127356) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif2b4 (NM_001127356) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eif2b4
Synonyms:	Eif2b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217613 representing NM_001127356
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAACCCAGCAGCCAGCTGCGCCGACGAGTCTCCCAAGTCTCCCGAGCCTGTCTGGCTCACTCT
 GTGCCCTGTTTTCTGATGCGAATCGAGATCCGAGATGAAGACTGAACTTCTCCTCGGCCCGGGCAGC
 AGGGCGGGAGTTGACCCAAGAAGAGAAGCTTCAGCTTCGAAAAGAAAAGAAACAGCAGAAGAAGAAACGG
 AAGGAGGAAAAGGGGCGAGACCAAGAAATTGGCTCTGCTGTGTCTGCAGCTCAACGGCAAGACCCAATCA
 GAGAACTCCAGGACCTGGTAGTCAGCTGGGAGGTACTGCTGGGAGAACTTCCAGCTGGCCGGAGTAA
 GGCAGAACTTCGCGCCGAAAGGAGAGCCAAGCAGGAGGCAGAGCGGGCCCTGAAACAGGCAAGAAAAGGG
 GAACAAGGAGGCGTCCCTCCTCAGGCTGCCCCAGCACTGCTGGAGAAACCCTCAGGAGTGAAGCGTG
 TCCCCGAGCACACCCAGCTGATGACCCACACTTCTGAGGAGGCTCCTAGAAAGCCAGATCGACAACA
 GTTTCTACACGAAAGGATTACGGATCCAAAGTCAGTCTTTCTCCACCTGCCTCAGTACAGCAGACAA
 AGTCTCTTGACCCAGTACATGAGCATCCCATCCTCTGTGATCCACCCAGCCATGGTGAGACTCGGTCTGC
 AGTACTCCAGGGCCTCATCAGTGGCTCCAATGCCCGGTGCATCGCACTGCTTACGCGCCTGCAGCAGGT
 GATTGAGGATTACACAACACCTCCAGTGAGGAACTCTCCAGGGATCTTGTAAATAAACTAAAACCTTAC
 ATCAGTTCTGACGCAGTGCCGCCCATGTGCGCAAGTATGTGCAACGCCATCAAGTTCCTAACCAAGG
 AAGTCACTGGCATGAGCAGCTCCAAGCGGGAAGAGGAGGCCAAGTCAAGACTTAGAGAAGCCCTCGACCG
 GTACGTGCAAGAGAAGATCGTGTGACGCTCAGGCAATTCACGATTTGCTTCTACAAAGATCAGTGAT
 GGGGACGTGATCCTGGTATATGGATGCTCATCTTTGGTGTGAGAATTCTCCAGGAGGCCAGGGTCGAGG
 GCAGGCGGTTTCCGGTGGTGGTGGTGGACAGCCCGCCCGCTGGAAGGAAGGCACATGCTCCACTCTCT
 TGTCCGTGCTGGGTCCCTACCTCTATCTGCTGATTCTCGAGCCTCCTATGTGCTTCCAGAGGTTTCT
 AAGGTGCTATTGGGAGCTCATGCACTCCTGCCAATGGATCTGTGATGTCTCGGGTAGGGACAGCACAGT
 TGGCCCTGGTGGCTCGAGCTATAACGTTCCAGTACTGGTCTGCTGTGAAACGTACAAGTTCTGTGAACG
 TGTGCAGACTGATGCCTTTGTCTCCAACGAGCTAGATGATCCCGATGATCTGCAGTGAAGCGGGGAGAC
 CAGGTGGCCCTGGCTAACTGGCAGAGCCACCCGTCCTCCGGTTGTTGAATCTGGTCTATGACGTGACTC
 CACCTGAGCTCGTGGATCTGGTATCACAGAGTTGGGCATGATCCCTGCAGTTCTGTGCCTGTTGTCT
 TCGAGTCAAGAGCAGTGACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG217613 representing NM_001127356
 Red=Cloning site Green=Tags(s)

MPTQQPAAPTSLPKSSRSLSGSLCALFSDAESRSEMKTLSRPGAAGREL TQEEKLQLRKEKKQKQKKR
 KEEKGADQEI GSAVSAQRQDPIRELPGPSQLGGTAGEKLPAGRSKAELRAERRAKQE AERALKQARKG
 EQGGVPPQACPSTAGETTSGVKRVPEHTPADDPTLLRRLLRKPDQQVPTRKDYGSKVSLSF SHLPQYSRQ
 SSSLTQYMSIPSSVIHPAMVRLGLQYSQGLISGSNARCIALLHALQQVIQDYTPPSEELSRDLVNLKLPY
 ISFLTQCRPMSASMCNAIKFLTKEVTGMSSSKREEEAKSELREALDRYVQEKIVLAAQAISRFASTKISD
 GDVILVYGCSLVSRI LQEARVEGRRFRVVVDSRPRLEGRHMLHSLVRAGVPTS YLLIPAASYVLPEVS
 KVLLGAHALLANGSVMSRVGTALALVARAHNPV LVCETYKFCERVQTD AFVSNELDDPDDLQCKRGD
 QVALANWQSHPSLRLLNLVYDVTPELVDLVITELGMIPCSSVPVLRVKSSDQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001127356

ORF Size: 1632 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_001127356.1](#), [NP_001120828.1](#)

RefSeq Size: 2119 bp

RefSeq ORF: 1635 bp

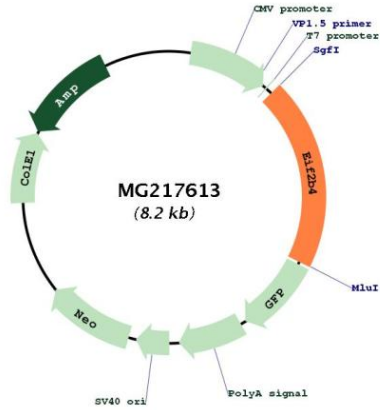
Locus ID: 13667

UniProt ID: [Q61749](#)

Cytogenetics: 5 B1

Gene Summary: Catalyzes the exchange of eukaryotic initiation factor 2-bound GDP for GTP.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG217613