

Product datasheet for **MG204296**

Eif2b1 (NM_145371) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Eif2b1 (NM_145371) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Eif2b1 |
| Synonyms: | 26kD; D5Ertd406; D5Ertd406e; EIF2; EIF2BA |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG204296 representing NM_145371 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGACGGTGAGTTAATTGAATACTTTAAGTCTCAGATGAAAGGAGATCCTAAAATGGCCTCAGCTG
TGGCTGCCATCCAGACTTTGTTGGAATTCTTGAAGAGAGATAAAGGAGAAACACTCCAGGGCCTGAGAGC
AAATCTCACCTATGCCATAAAAACCTCTGTGGTGTGGACTCCTCAGTGGCCGTGCATCTGGCGGGGAG
CTCTTCCTTCGTTTCATCAGCCTCACCTCCCTGGAATACTCTGACTACTCCTAAATGTAAGAAGATCATGA
TTGAGAGAGGAGAGCTGTTCTGAGAAGAATATCCCTGTCGAGAAATAAGATTGCCAATCTGTGCATAC
ATTCATCAAAGACGGGGCGAGAATTTTGACTCACGCCACTCCAGAGTTGTCTTAAGAGTCTGGAAGAA
GCCGTGGCAGCCAAGAAACGGTTTCAGTGTGTATATCACGGAGTCGCAGCCTGATTTATCTGGTAAGAAAA
TGGCCAAAGCCCTCTCCACCTCAACGTCCCTGTCACTGTGGTGTGGATGCTGTGCTGCTGCTATATCAT
GGAGAAAGCAGATCTTGTTCATAGTTGGTGTGAAGGAGTGGTAGAGAACGGAGGCATTATTAACAAGATT
GGAACCAACCAGATGGCCGTGTGTGCCAAAGCCAGAATAAGCCCTTCTATGTGGTTGCAGAAAGCTTCA
AGTTTCGTACGCCCTTTTCCACTCAACCAGGAGGACGTCCAGATAAGTTTAAGTACAAGGCAGACACTCT
GAAGTCTGTGCAGACTGGCAGGATCTCAAAGAGGAACACCCATGGGTGGACTACACCTCCCCATCCCTC
ATCACCCGTGCTGTTTACGGACCTGGGTGTGTTGACGCCATCTGCTGTAAGCGATGAGCTCATCAAGCTGT
ACCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204296 representing NM_145371
 Red=Cloning site Green=Tags(s)

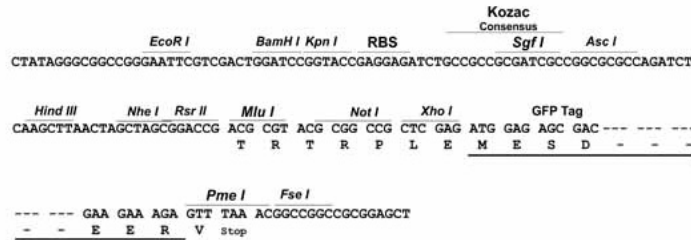
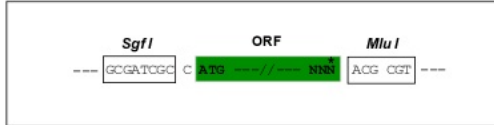
MEDGELIEYFKSQMKGDPKMASAVAAIQTLLEFLKRDKGETLQGLRANLTYAIKTLCGVDSSVAVSSGGE
 LFLRFISLTSLEYSYDYSKCKKIMIERGELFLRRISLSRNKIANLCHTFIKDGARILTHAYSRVVLRVLEE
 AVAAKKRF SVYITESQPDLSGKKMAKALSHLNPVTVVLDAAVGYIMEKADLVI VGAEGVVENGGIINKI
 GTNQMAVCAKAQNKPFYVVAESFKFVRLFPLNQEDVPDKFKYKADTLKSVQTGQDLKEEHPWVDYTSPL
 ITLLFTDLGVLTPSAVDELIKLYL

TRTRPLE - GFP Tag - V

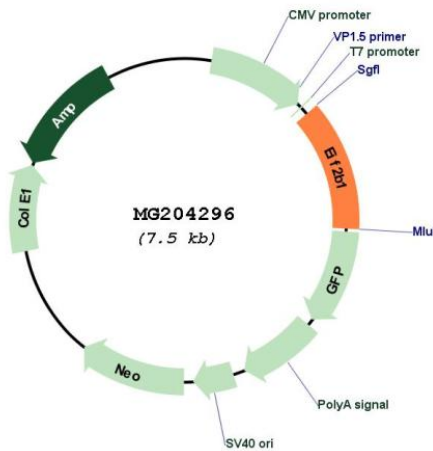
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_145371

ORF Size: 915 bp

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| 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: | <ol style="list-style-type: none">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_145371.4 , NP_663346.1 |
| RefSeq Size: | 1938 bp |
| RefSeq ORF: | 918 bp |
| Locus ID: | 209354 |
| UniProt ID: | Q99LC8 |
| Cytogenetics: | 5 63.67 cM |
| Gene Summary: | This gene encodes the alpha subunit of the eukaryotic translation initiation factor complex 2B (eIF2B). The eIF2B complex is a heterodecamer comprised of two molecules each of alpha, beta, gamma, delta and epsilon subunits. The eIF2B complex is a critical regulator of protein synthesis acting as the guanine nucleotide exchange factor for eIF2 to enable the formation of ternary complex that is required for the initiation of mRNA translation. [provided by RefSeq, Aug 2015] |