

Product datasheet for **RG201351**

EIF2B2 (NM_014239) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF2B2 (NM_014239) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EIF2B2
Synonyms:	EIF-2Bbeta; EIF2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201351 representing NM_014239 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCCGGGATCCGCAGCGAAGGGCTCGGAGTTGTCTCAGAGAGGATCGAGAGCTTCGTGGAGACCTGAAGC
GGGGTGGTGGGCCGCGCAGCTCCGAGGAAATGGCTCGGGAGACCTAGGGTTGCTGCGCCAGATCATCAC
GGACCACCGCTGGAGCAACGCGGGGAGCTGATGGAGCTGATCCGCAGAGAGGGCAGGAGGATGACGGCC
GCTCAGCCCTCCGAGACCACCGTGGCAACATGGTGGGAGAGTGCTCAAGATTATCCGGGAGGAGTATG
GCAGACTCCATGGACGCACCGACGAGAGTGATCAGCAGGAGTCCCTGCACAACTGTTGACATCCGGAGG
CCTAAACGAGGATTTAGCTTCCATTATGCCAACTCCAGTCCAACATCATTGAGGCGATTAATGAGCTG
CTAGTGGAGCTGGAAGGGACAATGGAGAACATTGCAGCCAGGCTCTGGAGCACATTCACTCCAATGAGG
TGATCATGACCATTGGCTTCTCCGAACAGTAGAGGCTTCTCTCAAGAGGCTGCCCGAAAGAGGAAATT
CCATGTCAATTGTAGCAGAGTGCTCTCTTCTGCCAGGGTCATGAAATGGCTGTGAATTTGTCCAAAGCA
GGTATTGAGACAACTGTCATGACTGATGCTGCCATTTTGGCGTTATGTCAAGAGTCAACAAGGTGATCA
TTGGCACGAAGACCATCCTGGCCAATGGGGCCCTGAGAGCTGTGACAGGAACACACTCTGGCACTGGC
AGCAAAACACCATTCACCCCACTCATCGTCTGTGCACCTATGTTCAAATTTCTCCACAGTTCCCAAT
GAAGAAGACTCATTTATAAGTTTGTGGCTCCTGAAGAAGTCTGCCATTACAGAAGGGGACATTTCTGG
AGAAGGTCAGCGTGCATTGCCCTGTGTTTGACTACGTTCCCGCAGAGCTATTACCCTCTTTATCTCCAA
CATTGGTGGGAATGCACCTTCTACATCTACCGCCTGATGAGTGAACCTACCATCCTGATGATCATGTT
TTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201351 representing NM_014239
 Red=Cloning site Green=Tags(s)

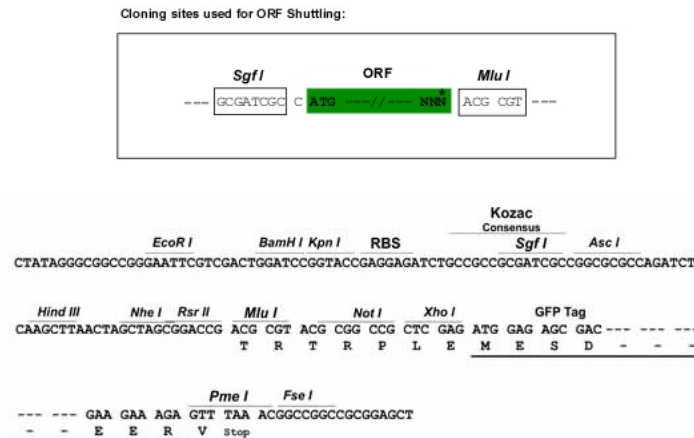
MPGSAAGSELSEIESFVETLKRGGGPRSSSEEMARETLGLLRQIITDHRWSNAGELMELIRREGRRMTA
 AQPSETTVGNMVRVLKIIREEYGR LHGR TDES DQ QES LHKLL TSGGLNEDFSFHYAQLQSNII EAINEL
 LVELEGT MENIAAQALEHIHSNEVIMTIGFSRTVEAFLKEAARKRKFHVIVAECAPFCQGHMAVNLSKA
 GIETTVMTDAAIFAVMSRVNKKVIGTKILANGALRAVTGHTLALAAKHHSTPLIVCAPMFKLSPQFPN
 EEDSFHKFVAPEEVLPTTEGDILEKVSVHCPVFDYVPPELITLFI SNIGNNAPSYYRLMSELYHPDDHV
 L

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_014239

ORF Size: 1053 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014239.1](#), [NP_055054.1](#)

RefSeq Size: 1522 bp

RefSeq ORF: 1056 bp

Locus ID: 8892

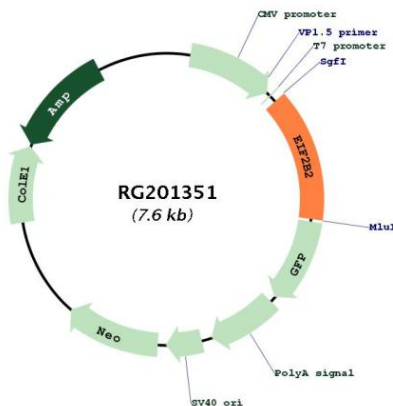
UniProt ID: [P49770](#)

Cytogenetics: 14q24.3

Domains: IF-2B

Gene Summary: This gene encodes the beta subunit of eukaryotic initiation factor-2B (EIF2B). EIF2B is involved in protein synthesis and exchanges GDP and GTP for its activation and deactivation. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG201351