

Product datasheet for **RC201351**

EIF2B2 (NM_014239) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	EIF2B2
Synonyms:	EIF-2Bbeta; EIF2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201351 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGGATCCGCAGCGAAGGGCTCGGAGTTGTCAGAGAGGATCGAGAGCTTCGTGGAGACCCTGAAGC
GGGGTGGTGGGCCGCGCAGCTCCGAGGAAATGGCTCGGGAGACCCTAGGGTTGCTGCGCCAGATCATCAC
GGACCACCGCTGGAGCAACGCGGGGAGCTGATGGAGCTGATCCGCAGAGAGGGCAGGAGGATGACGGCC
GCTCAGCCCTCCGAGACCACCGTGGGCAACATGGTGCGGAGAGTGCTCAAGATTATCCGGGAGGAGTATG
GCAGACTCCATGGACGCACCGACGAGAGTGATCAGCAGGAGTCCCTGCACAACTGTTGACATCCGGAGG
CCTAAACGAGGATTTTCAGCTTCCATTATGCCCAACTCCAGTCCAACATCATTGAGGCGATTAATGAGCTG
CTAGTGGAGCTGGAAGGGACAATGGAGAACATTGCAGCCAGGCTCTGGAGCACATTCACTCCAATGAGG
TGATCATGACCATTGGCTTCTCCGAACAGTAGAGGCCTTCTCAAAGAGGCTGCCGAAAGAGGAAATT
CCATGTCAATTGTAGCAGAGTGCTCTTTCTGCCAGGGTCATGAAATGGCTGTGAATTTGTCCAAAGCA
GGTATTGAGACAACTGTCATGACTGATGCTGCCATTTTGGCGTTATGTCAAGAGTCAACAAGGTGATCA
TTGGCACGAAGACCATCTGGCCAATGGGGCCCTGAGAGCTGTGACAGGAACACACTCTGGCACTGGC
AGCAAAACACCATTCACCCCACTCATCGTCTGTGCACCTATGTTCAAATTTCTCCACAGTTCCCAAT
GAAGAAGACTCATTTCAAGTTTGTGGCTCCTGAAGAAGTCTGCCATTCACAGAAGGGGACATTCTGG
AGAAGGTGAGCGTGATTGCCCTGTGTTTGAACGTTTCCCCAGAGCTATTACCTCTTTATCTCCAA
CATTGGTGGGAATGCACCTTCTACATCTACCGCTGATGAGTGAACCTACCATCTGATGATCATGTT
TTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201351 protein sequence
 Red=Cloning site Green=Tags(s)

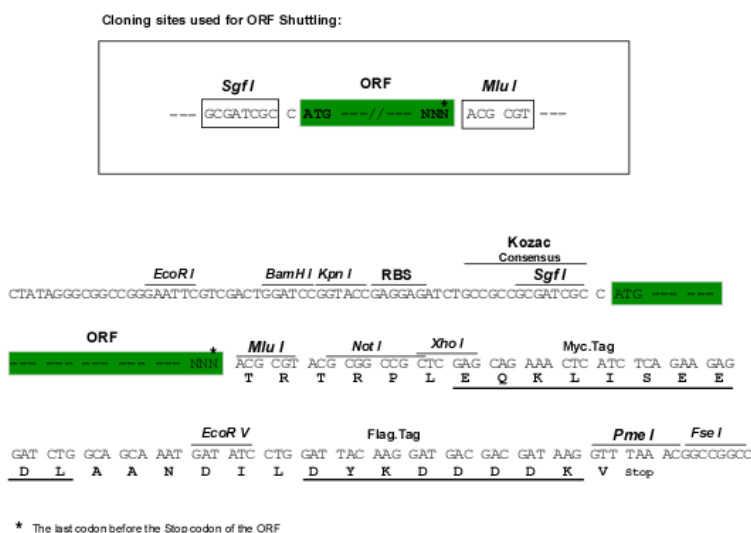
MPGSAAKGSEL SERIESFVETLKRGGGPRSSSEEMARETLGLLRQIITDHRWSNAGELMELIRREGRRMTA
 AQPSETTVGMNVRRLKIIREEYGRLLHGRDSESDQQESLHKLLTSGGLNEDFSFHYAQLQSNIIIEAINEL
 LVELEGTMENIAAQALEHIHSNEVIMTIGFSRTVEAFLKEAARKRKFHVIVAECAPFCQGHMAVNLSKA
 GIETTVMTDAAIFAVMSRVNKVIIGTKTILANGALRAVTGHTLALAAKHHSTPLIVCAPMFKLSPQFPN
 EEDSFHKFVAPEEVLPTTEGDILEKVSVHCPVFDYVPPELITLFI SNIGGNAPSYIYRLMSEL YHPDDHV
 L

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6092_h05.zip

Restriction Sites: Sgfl-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_014239.4

RefSeq Size: 1557 bp

RefSeq ORF: 1056 bp

Locus ID: 8892

UniProt ID: P49770

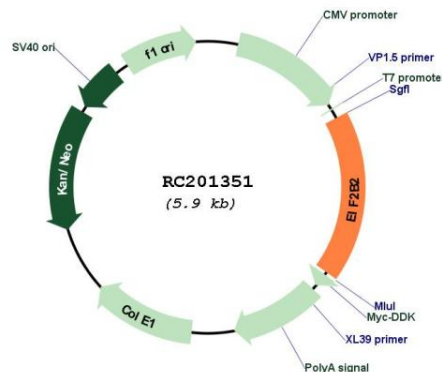
Cytogenetics: 14q24.3

Domains: IF-2B

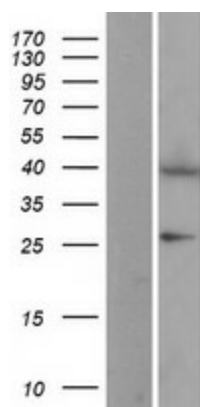
MW: 39 kDa

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]

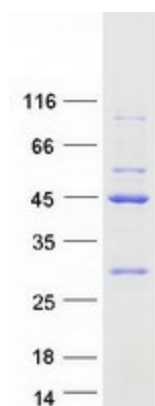
Product images:



Circular map for RC201351



Western blot validation of overexpression lysate (Cat# LY402293) using anti-DDK antibody (Cat# TA50011-100). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201351 using transfection reagent MegaTran 2.0 (Cat# TT210002).



Coomassie blue staining of purified EIF2B2 protein (Cat# TP301351). The protein was produced from HEK293T cells transfected with EIF2B2 cDNA clone (Cat# RC201351) using MegaTran 2.0 (Cat# TT210002).