

Product datasheet for **MR204296**

Eif2b1 (NM_145371) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif2b1 (NM_145371) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif2b1
Synonyms:	26kD; D5Ertd406; D5Ertd406e; EIF2; EIF2BA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204296 representing NM_145371 Red =Cloning site Blue =ORF Green =Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGAGGACGGTGAGTTAATTGAATACTTTAAGTCTCAGATGAAAGGAGATCCTAAATGGCCTCAGCTG
 TGGCTGCCATCCAGACTTTGTTGGAATCTTGAAGAGAGATAAAGGAGAAACACTCCAGGGCCTGAGAGC
 AAATCTCACCTATGCCATAAAAACCTCTGTGGTGTGGACTCCTCAGTGGCCGTGTCATCTGGCGGGGAG
 CTCTTCCTTCGTTTCATCAGCCTCACCTCCCTGGAATACTCTGACTACTCAAATGTAAGAAGATCATGA
 TTGAGAGAGGAGAGCTGTTCTGAGAAGAATATCCCTGTCGAGAAATAAGATTGCCAATCTGTGTCATAC
 ATTCATCAAAGACGGGGCGAGAATTTTGACTCACGCCTACTCCAGAGTTGTCTTAAGAGTCTGGAAGAA
 GCCGTGGCAGCCAAGAAACGGTTTCAGTGTGTATATCACGGAGTCGCAGCCTGATTATCTGGTAAGAAAA
 TGGCAAAGCCCTCTCCACCTCAACGTCCCTGTCACTGTGGTGTGGATGCTGCTGTCGGCTATATCAT
 GGAGAAAGCAGATCTTGTGATAGTTGGTGTGAAGGAGTGGTAGAGAACGGAGGCATTATTAACAAGATT
 GGAACCAACCAGATGGCCGTGTGTGCCAAAGCCCAGAATAAGCCCTTCTATGTGGTTGCAGAAAGCTTCA
 AGTTCGTACGCCTCTTTCCACTCAACCAGGAGGACGTCCAGATAAGTTTAAGTACAAGGCAGACACTCT
 GAAGTCTGTGCAGACTGGGCAGGATCTCAAAGAGGAACACCCATGGGTGGACTACACCTCCCCATCCCTC
 ATCACCTGCTGTTTACGGACCTGGGTGTGTTGACGCCATCTGCTGTAAGCGATGAGCTCATCAAGCTGT
 ACCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR204296 representing NM_145371
 Red=Cloning site Green=Tags(s)

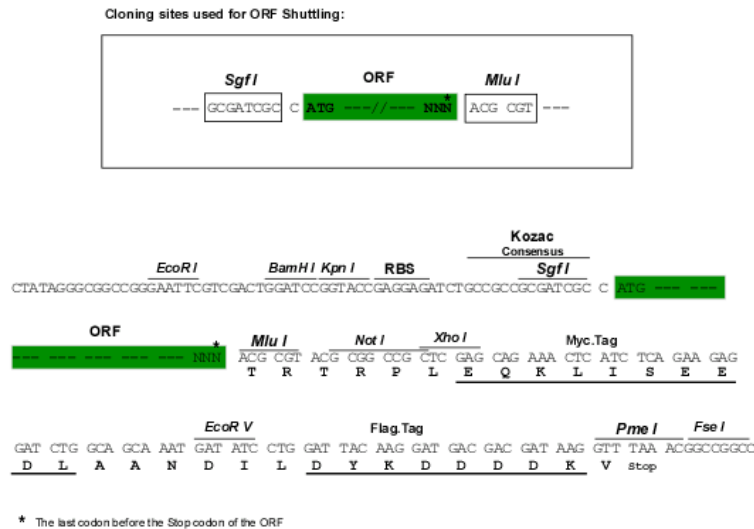
MEDGELIEYFKSQMKGDPKMASAVAAIQTLLLEFLKRDKGETLQGLRANLTYAIKTLCGVDSSVAVSSGGE
 LFLRFISLTSLEYSYDYSKCKKIMIERGELFLRRISLSRNKIANLCHTFIKDGARILTHAYSRVLRVLEE
 AVAAKKRF SVYITESQPDLSGKKMAKALSHLNVPVTVVLDAAVGYIMEKADLVIVGAEGVVENGGIINKI
 GTNQMAVCAKAQNKPFYVVAESFKFVRLFPLNQEDVPDKFKYKADTLKSVQTGQDLKEEHPWVDYTSPL
 ITLLFTDLGVLTPSAVDELIKLYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9064_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145371

ORF Size: 915 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_145371.4](#), [NP_663346.1](#)

RefSeq Size: 2012 bp

RefSeq ORF: 918 bp

Locus ID: 209354

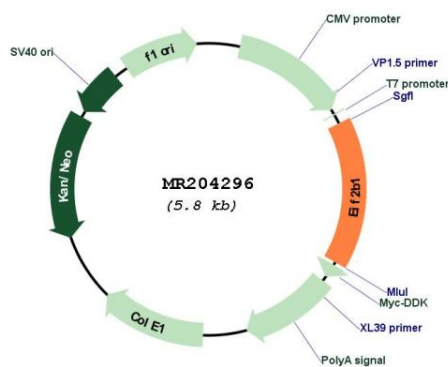
UniProt ID: [Q99LC8](#)

Cytogenetics: 5 63.67 cM

MW: 33.8 kDa

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]

Product images:



Circular map for MR204296