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# Product datasheet for MC212523

## Eif2b1 (NM_145371) Mouse Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Eif2b1 (NM_145371) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Eif2b1 |
| **Synonyms:** | 26kD; D5Ertd406; D5Ertd406e; EIF2; EIF2BA |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**Fully Sequenced ORF:**

```
>MC212523 representing NM_145371
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGACGGTGAGTTAATTGAATACTTTAAGTCTCAGATGAAAGGAGATCCTAAAATGGCCTCAGCTG
TGGCTGCCATCCAGACTTTGTTGGAATTCTTGAAGAGAGATAAAGGAGAAACACTCCAGGGCCTGAGAGC
AAATCTCACCTATGCCATAAAAACCCTCTGTGGTGTGGACTCCTCAGTGGCCGTGTCATCTGGCGGGGAG
CTCTTCCTTCGCTTCATCAGCCTCACCTCCCTGGAATACTCTGACTACTCCAAATGTAAGAAGATCATGA
TTGAGAGAGGAGAGCTGTTCCTGAGAAGAATATCCCTGTCGAGAAATAAGATTGCCAATCTGTGTCATAC
ATTCATCAAAGACGGGGCGAGAATTTTGACTCACGCCTACTCCAGAGTTGTCTTAAGAGTCCTGGAAGAA
GCCGTGGCAGCCAAGAAACGGTTCAGTGTGTATATCACGGAGTCGCAGCCTGATTTATCTGGTAAGAAAA
TGGCCAAAGCCCTCTCCCACCTCAACGTCCCTGTCACTGTGGTGCTGGATGCTGCTGTCGGCTATATCAT
GGAGAAAGCAGATCTTGTCATAGTTGGTGCTGAAGGAGTGGTAGAGAACGGAGGCATTATTAACAAGATT
GGAACCAACCAGATGGCCGTGTGTGCCAAAGCCCAGAATAAGCCCTTCTATGTGGTTGCAGAAAGCTTCA
AGTTCGTACGCCTCTTTCCACTCAACCAGGAGGACGTCCCAGATAAGTTTAAGTACAAGGCAGACACTCT
GAAGTCTGTGCAGACTGGGCAGGATCTCAAAGAGGAACACCCATGGGTGGACTACACCTCCCCATCCCTC
ATCACCCTGCTGTTTACGGACCTGGGTGTGTTGACGCCATCTGCTGTAAGCGATGAGCTCATCAAGCTGT
ACCTATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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| | |
|---|---|
| **Restriction Sites:** | SgfI-MluI |
| **ACCN:** | NM_145371 |

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| | |
|---|---|
| **Insert Size:** | 918 bp |
| **OTI Disclaimer:** | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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:** | 2012 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] |

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