

Product datasheet for **MC229250**

Epb41I2 (NM_001199265) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Epb41I2 (NM_001199265) Mouse Untagged Clone
Tag: Tag Free
Symbol: Epb41I2
Synonyms: 4.1G; AW555191; D10Ert398e; Epb4.1I2; NBL2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229250 representing NM_001199265
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTACTGAAGTTGGCTCTGCATCTGAAGTGAAGAAGGGCTCTGACCAGGCTGGAGCAGATGCCTCCA
 AGGAGAAAAGCTAAAGAAGTAGAAAATGAGCAGACTCCAGTATCTGAGCCAGAGGAAGAAAAGGGTCCCA
 GCCAGGTCTCCGGTTGAGAGGCAAAGCACTCCCGCCTGCGGAAACGAGGAAGGATCCGTCTGAGAAC
 AGGGGCATCTCTCGATTACATACCCCGTGGCTTAAGAAGCAGAGGTCTTACAATTTAGTAGTAGCCAAAAG
 ATGGAGGAGATAAAAAAGAGCCTACTCAAGCTGACGTGGAAGACCAGATCTTAGGCAAAGAGGAATCCCT
 TCCTGAAGAAGAGAGTCCGGCCAAAGGTGACGCAGAAGAAATGGCTCAGAGGAAGCACCTGGAGGTTGAG
 GTGGAGGTGAGGAAGCAAAACCAGCCTTGAAAAGCAGCGTGGAGACCCAGCCTGCTGAAGAAGTGAAGGA
 AGGACAAGGAGGAAACGATACAAGACACACAGGAAGAGAACTGGAAGGAGGTGCAGCCAAAAGGGAGAC
 AAAGGAAGTACAGACAAGTGAAGTGAAGGCAGAGGTGGCCTCTCAGAAAGCTACCAAGAAGACCAAGACT
 GTCCTGGCCAAAGTGACCCTTCTAGATGGCACGGAATACAGCTGTGACCTTGAGAAACGTGCCAAGGGAC
 AAGTGTGTTTGACCGAGTGTGCGAGCACCTGAACCTCTTGAGAAGGACTACTTTGGACTCTATTTCAG
 GGATCATCTGAGCAGAAAACTGGCTAGATCCTGCAAAGGAAATAAAGAGACAGCTGAAAAATCTTCCC
 TGGCTGTTCACTTTCAATGTGAAATTTTATCCTCCAGATCCTTCTCAGCTGACTGAAGATATCACCAGAT
 ACTTCTTGTGCCTTCAGCTAAGGCAGGACATCGCCTCTGGCCGCCTGCCCTGCTCTTTGTGACTCACGC
 CCTCTTGGGATCTACACCTTGCAGGCCGAGCATGGGGACTATGACCCAGAAGAAATGACAGTATTGAT
 CTTGGTGACTTCCAGTTTGCCCCGGCCACACCAAGGAGTTGGAGGAAAAGGTGTCAGAAGTGCATAAAA
 CTCACAGGGGCTTATCTCCAGCACAAGCCGACTCTCAGTCTTAGAGAACGCAAAGAGGCTTTCCATGTA
 CGGTGTTGACCTGCACCATGCCAAGGACTCTGAAGGTGTGGACATCAAGCTGGGTGTGTGTGCCAATGCC
 CTTCTCATTTACAAAGACAGACTAAGGATCAATCGTTTTGCTTGCCGAAGATTTTGAAAATTTCTATA
 AGCGCAGTAATTTCTACATTAAGTTAGACCAGCAGAGCTGGAACAGTTTGAGAGTACCATTGGATTCAA
 ATTGCCAAACCACGGGAGCTAAACGGCTATGGAAGGTGTGTGTGGAACATCACACTTTCTACAGGCTT
 GTGTCTCCAGAGCAGCCACCAAAGCAAGTCTTGACCTGGGGTCAAATTCGCTACAGCGCCGCA



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CGCAGGCACAGACCAGAGAAGCAAGTACCCTCATAGACAGGCCGGCACCACAATTTGAGCGTGCCTCTAG
TAAACGTGTCTCGAGGAGCCTAGACGGAGCCCGATTGGTGTGGACCAAAGCCCTCCTGGAGAGGGC
TCAGTGCCTGGCCCTGGAGTTATCAGCTATACTACCATCCAGGATGGCCGGAGGGACAGCAAAAGCCAA
CAAAAGCTACACCCTGCCCGCTGAGGGAAAGAAAAATACCTTGAGAGTAGACGGGGATAATATTTATGT
CAGACATAGCAATTTAATGTTGGAGGACCTGGATAAGGCCAGGAGGCCATTCTGAAACATCAGGCTAGC
ATTAGTGAACCTAAGCGCAATTTTCATGGCGTCCACACCTGAGCCTCGCCCAAGTGAATGGGAGAAGCGGC
GGGTCACACCTCTGCCTTTCCAACCACAAGCGAGTTCACATGAGACTCTGAATGTAGTGGAGGAGAAGAA
CGGGCAGAGGTTGGGAAAGACGAAAGCGTAATCACAGAAGAAATGAATGGTAAAGAGATGTCACCGGGG
CATGGTCTCGGGAGACTCGTAAGTGGAGCCTGTGGCACACAAAGACTCCACCTCCCTGTCTTCTGAGA
GCAGCAGCAGCAGCAGTGAAGTGAAGGAGCCTGGGAGAGTACCAGCCCAACCAGGAGTACCGAGGG
CACCATAAGGGAAGAGCAGGAGGAGTGTGATGAAGAGCTGGAGGAAGAGCCCGGCAAGGAGCAAGGTA
GTAGAGAGGGAGGAGCAGTGCCTGACGCGTCCAGACAGACAAGCAGGGGCCAGTGTGCTCCAGTAG
AAACAGAGGCCAGGAACATGTAGTTGCCCAAAGTTACCTGGAGAAAAGGTGCACACGGAGGCACTGC
TGAGCAGGACCCGAGAGAAGAAGCAGAGGAAGACCCGCACAGAGTTAATGGAGAGGTGCCCATCTTGAC
CTTGATGGTTTGGCAGAGATTATTTGTTGTTTCAGAGCCACAGTGGTAAAACAGAGATGGTAACAATTT
CTGATGCCTCACAAAGGACAGAAATCTCCACCAAGGAAGTCCCAATTGTTCAAACAGAGCAAAACCAT
CACATATGAGTCTCCACAGATTGACGGCGGGGCTGGTGGTGTTCGGGCGTGTACTGACCCACAACCC
ATCACATCTGAGTCCGCGTCAACAACGACAACCACACATCACCAAGACTGTGAAAGTGGGATCTCTG
AAACACGAATTGAGAAACGCATTGTGATCACAGGAGACGAGCTCTGGATCATGATCAGGCGCTGGCTCA
GGCCATACGGGAAGCGAGAGAGCAGCACCTGATATGTCGGTCACAAGGGTGGTAGTGCACAAAGAAACA
GAGTTGGCGGAGGAAGGAGAAGAAATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001199265
- Insert Size:** 2967 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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.
- RefSeq:** [NM_001199265.1](#), [NP_001186194.1](#)
- RefSeq Size:** 4389 bp

RefSeq ORF: 2967 bp

Locus ID: 13822

UniProt ID: [O70318](#)

Cytogenetics: 10 12.26 cM

Gene Summary: Required for dynein-dynactin complex and NUMA1 recruitment at the mitotic cell cortex during anaphase.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 both encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.