

## Product datasheet for **MG225791**

### **Epb41 (NM\_001128606) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Epb41 (NM_001128606) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Epb41
Synonyms:	4.1R; AI415518; D4Ertd442e; Elp-1; Elp1; Epb4.1; mKIAA4056
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG225791 representing NM\_001128606  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACAACAGAGAAGAGTTTAGCGGCTGAAGCTGAGAATTCTCAGCACCAGCAACAGAAGGAAGAAGGAG  
 AGGGAGCCACAACTCAGGCCAACAAAGAACTCAGCTGGAGGAGGCCCTCCAAGCGGCCGACGTGAGGG  
 CAGCGATCAGGGTGAGCAGAAGCTGAAAGCATCCAATGGGGACTCCAACACATGAAGACTTGACCAAG  
 AACAAAGGAACGGACATCAGAAAGCAGAGGCCTGTCAGACTGCTCTCCTCATTCTCAAAGGCCAAAGT  
 CGCAGGTCTCTGAAGAAGAAGGCAGAGAAGTAGAATCAGAGAAAGAGAAAGGTGAAGGGGTGAGAAGGA  
 GATAGAACTTGAAACAGCCTTGATGAAGACATCATTTTAAAGGCCCCATTGCAGCTCTGAACCTGAG  
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 ACAGAGAGGCCAGATTCTGAAACGAAGGAAGGAGAAGGGATTGAAGAGTGTCTGGAACAGAGGTGAA  
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 ATGCACTGTAAGGTCTCCTTGTGGATGACACGGTCTACGAATGTGTGTAGAGAAACATGCTAAGGGAC  
 AAGACTTGCTGAAGCGAGTGTGCGAGCACCTCAACCTTTTGAAGAAGACTACTTTGGTTTAGCCCTGTG  
 GGACAGCGCAACCTCTAAGACATGGCTGGATTCTGCCAAAGAAATAAAAAGCAGGTTCCAGGTGTTCTT  
 TGGAAATTCACATTTAATGTGAAGTTTTATCCACCCGACCCAGCACAAATTAACAGAAGACATAACAAGAT  
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 GCTCCCCAGTTATCGAGCGGCCAAGAACTATGGAAGGTCTGTGTGGAGCATCACACGTTCTTCAGACTC  
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 AAGCTGTGAAGGTTGAAGAGAAGCGGGGAGAAGAGCCGGCTGAGCCCGCTGAGCCGGAGCCACAGAAGC  
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 TCCGGACTCTTAACATCAACGGGCAAGTCCCTACTGGAGATGGACCTCCTCTGGTAAAGACTCAAAGTGT  
 CACCATCTCAGATACTGCCAATGCTGTGAAAAGTGAATCCCAACCAAAGATGTCCTATTGTCCACACT  
 GAGACCAAGACCATCACCTATGAAGTGCACGACTGAGGACAGCAATGGGGACTTAGACCCTGGAGTCT  
 TGCTGACAGCCCAGACATCACATCCGAGACCACAAGTAGTACAACCACGACACAGATTACCAAGACTGT  
 AAAAGGTGGGATTTCTGAGACCCGGATCGAGAAGAGAATTGTGATCACAGGAGATGCCGATATCGACCAT  
 GATCAGGTCCTTGTACAAGCCATCAAGGAAGCCAAGGAGCAGCATCCAGACATGTCAGTGACCAAGGTGG  
 TCGTCCACCAGGAGACAGAGATCTCTGAGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG225791 representing NM\_001128606  
 Red=Cloning site Green=Tags(s)

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MTTEKSLAAEAENSQHQQQKEEGEGATNSGQQETQLEEASQAAAAEGSDQGEQKLKASNGDTPTHEDLTK
NKERTSESRLSRLSSFLKRPKSQVSEEEGREVESEKEKGEQQKEIELGNSLDEDIILKAPIAAPEPE
LKTDPSLDLHSLSSIETQPAQEEHREDPDSETKEGEGIEECSGTEVKEDPESRAEREPEASQKPVRRHRN
MHCKVSLLDLDDTVYECVVEKHAKGQDLLKRVCEHLNLEEDYFGLALWDSATSKTWLDSAKEIKKQVRGVP
WNFTFNVKFYPPDPAQLTEDITRYLCLQLRQDIVAGRLPCSFATLALLGSYTIQSELGDYDPELHGMDY
VSDFKLAPNQTKLEEKVMEHKSYSRSMTPAQADLEFLENAKKLSMYGVDLHKAKDLEGVDIILGVCSSG
LLVYKDKLRINRFPWPKVLKISYKRSSFYIKIRPGEQEHYESTIGFKLPSYRAAKLWKVCVEHHTFFRL
TSTDTIPKSKFLALGSKFRYSGRTQAQTRQASALIDRPAPHFERTASKRASRLDAAAAESTDRSPRPT
SAPAIASQVTEGPGAPIKKTPEAVKVEEKRGEEPAEPAEPEPEAWKDLKQSQEEIKKHHASISELKK
NFMESVPEPRPSEWDKRLSTHSPFRTLNINGVPTGDGPPLVKTQTVTISDTANAVKSEIPTKDVPVHT
ETKTITYEAAQTEDSNGDLDPGVLLTAQTITSETTSSTTTTQITKTVKGGISETRIEKRIVITGDADIDH
DQVLVQAIKEAKEQHPDMSVTKVVVHQETEISEE
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**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\\_001128606.1](#), [NP\\_001122078.1](#)

**RefSeq Size:** 5141 bp

**RefSeq ORF:** 2415 bp

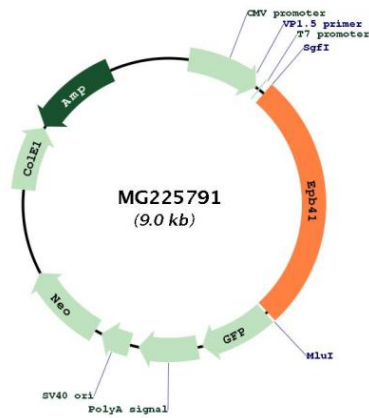
**Locus ID:** 269587

**UniProt ID:** [P48193](#)

**Cytogenetics:** 4 64.54 cM

**Gene Summary:** Protein 4.1 is a major structural element of the erythrocyte membrane skeleton. It plays a key role in regulating membrane physical properties of mechanical stability and deformability by stabilizing spectrin-actin interaction. Recruits DLG1 to membranes. Required for dynein-dynactin complex and NUMA1 recruitment at the mitotic cell cortex during anaphase. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG225791