

Product datasheet for **MC221783**

Epb41 (NM_001128606) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epb41 (NM_001128606) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Epb41
Synonyms:	4.1R; AI415518; D4Ertd442e; Elp-1; Elp1; Epb4.1; mKIAA4056
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221783 representing NM_001128606
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAACAGAGAAGAGTTTAGCGGCTGAAGCTGAGAATTCTCAGCACCAGCAACAGAAGGAAGAAGGAG
 AGGGAGCCACAACTCAGGCCAACAAAGAACTCAGCTGGAGGAGGCCCTCCAAGCGGCCGAGCTGAGGG
 CAGCGATCAGGGTGAGCAGAAGCTGAAAGCATCCAATGGGGACTCCAACACATGAAGACTTGACCAAG
 AACAAAGAACGGACATCAGAAAGCAGAGGCCTGTCAGACTGCTCTCCTCATTCTCAAAGGCCAAAGT
 CGCAGGTCTCTGAAGAAGAAGGCAGAGAAGTAGAATCAGAGAAAGAGAAAGGTGAAGGGGTGAGAAGGA
 GATAGAACTTGAAACAGCCTTGATGAAGACATCATTTTAAAGGCCCCATTGCAGCTCTGAACCTGAG
 CTCAAACAGACCCATCTTTGGATCTTCATTCTTAAGCAGTATAGAGACACAGCCAGCTCAGGAAGAAC
 ACAGAGAGACCCAGATTCTGAAACGAAGGAAGGAGAAGGGATTGAAGAGTGTCTGGAACAGAGGTGAA
 AGAGGACCCAGAGTCAAGAGCAGAGAGAGAACCCGAAGCCTCCAGAAGCCGCTCAGAAGACACAGAAC
 ATGCACTGTAAGGTCTCCTTGTGGATGACACGGTCTACGAATGTGTGTAGAGAAACATGCTAAGGGAC
 AAGACTTGCTGAAGCGAGTGTGCGAGCACCTCAACCTTTTGAAGAAGACTACTTTGGTTTAGCCCTGTG
 GGACAGCGCAACCTCTAAGACATGGCTGGATTCTGCCAAAGAAATAAAAAGCAGGTTCCGAGGTGTTCT
 TGGAAATTCACATTTAATGTGAAGTTTTATCCACCCGACCCAGCACAAATTAACAGAAGACATAACAAGAT
 ACTATTTATGTCTTCAGCTTCGGCAGGACATTGTTGCTGGACGTCTGCCCTGTTCTTTGCAACTTTAGC
 CCTACTCGGGTCTTACACGATCCAGTCTGAGCTGGGAGACTATGACCCAGAAGTGCACGGCATGGATTAT
 GTTAGTGATTTAAACTGGCTCCAAATCAGACCAAGGAAGTGAAGAAAAGGTGATGGAATTCATAAAT
 CATACAGGTCCATGACTCCAGTCCAGCTGACTGGAAATTTCTTGAGAATGCCAAAAGTTGTCATGTA
 TGGAGTTGATCTTCAAAAGCAAAGGACTTGGAGGGAGTGGACATTATTCTCGGGCTCTGCTCCAGCGGC
 CTCTGTTTTACAAGACAAGTTGAGAATTAACCGCTTCTTGGCCCAAAGTGCTAAAGATTTCTTACA
 AACGCAGCAGTTCTTCAAGATCCGGCCTGGAGAGCAAGAACATTATGAAAGTACCATCGGCTTCAA
 GCTCCCCAGTTATCGAGCGGCCAAGAACTATGGAAGGTCTGTGTGGAGCATCACACGTTCTCAGACTC
 ACCTCTACAGACACCATCCCCAAAAGCAAGTTCTTGCCTGGGATCCAAATTCGATACAGTGGCCGGA
 CTCAAGCTCAGACCAGGCAAGCCAGTGCCTGATTGACAGGCCTGCTCCACACTTGAGCGGACAGCAAG
 CAAGCGGGCGTCCAGGAGCCTCGATGGAGCAGCAGCTGCTGAGTCCACAGACCGAAGTCTCGGCCACC
 TCTGCCACGCCATTGCTCAGAGTCAGGTACAGAAGGGCCAGGGGCACCTATCAAAAAACACCAAGG
 AAGCTGTGAAGGTTGAAGAGAAGCGGGGAGAAGAGCCGGCTGAGCCCGCTGAGCCGGAGCCACAGAAGC
 ATGGAAGGATTTAGACAAGAGTCAAGAAGAGATCAAAAAGCACCATGCCAGCATCAGTGAAGTGA
 AACTTTATGGAATCGGTACCCGAACACGGCCAGCGAGTGGGACAAGCGCTTATCTACACACTCACCT
 TCCGGACTCTTAACATCAACGGGCAAGTCCCTACTGGAGATGGACCTCCTCTGGTAAAGACTCAAAGT
 CACCATCTCAGATACTGCCAATGCTGTGAAAAGTGAATCCCAACCAAAGATGTCCTATTGTCCACACT
 GAGACCAAGACCATCACCTATGAAGCTGCCAGACTGAGGACAGCAATGGGGACTTAGACCCTGGAGTCT
 TGCTGACAGCCCAGACCATCACATCCGAGACCACAAGTAGTACAACCACGACACAGATTACCAAGACTGT
 AAAAGGTGGGATTTCTGAGACCCGGATCGAGAAGAGAATTGTGATCACAGGAGATGCCGATATCGACCAT
 GATCAGGTCCTTGTACAAGCCATCAAGGAAGCCAAGGAGCAGCATCCAGACATGTCAGTGACCAAGGTGG
 TCGTCCACCAGGAGACAGAGATCTCTGAGGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001128606
Insert Size: 2415 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:	<ol style="list-style-type: none">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:	<u>NM_001128606.1</u> , <u>NP_001122078.1</u>
RefSeq Size:	5141 bp
RefSeq ORF:	2415 bp
Locus ID:	269587
UniProt ID:	<u>P48193</u>
Cytogenetics:	4 64.54 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks multiple in-frame exons and uses a different 5' UTR, compared to variant 1. The encoded protein (isoform 2) is shorter than isoform 1.</p>