

Product datasheet for **MC222203**

Epb41 (NM_183428) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epb41 (NM_183428) 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: >MC222203 representing NM_183428
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACAACAGAGAAGAGTTTAGCGGCTGAAGCTGAGAATTCTCAGCACCAGCAACAGAAGGAAGAAGGAG
 AGGGAGCCACAACTCAGGCCAACAAAGAACTCAGCTGGAGGAGGCCCTCCAAGCGGCCGAGCTGAGGG
 CAGCGATCAGGGTGAGCAGAAGCTGAAAGCATCCAATGGGGACTCCAACACATGAAGACTTGACCAAG
 AACAAAGGAACGGACATCAGAAAGCAGAGGCCTGTCAGACTGCTCTCCTCATTCTCAAAAGGCCAAAGT
 CGCAGGTCTCTGAAGAAGAAGGCAGAGAAGTAGAATCAGAGAAAGAGAAAGGTGAAGGGGTGAGAAGGA
 GATAGAACTTGAAACAGCCTTGATGAAGACATCATTTTAAAGGCCCCATTGCAGCTCTGAACCTGAG
 CTCAAAACAGACCCATCTTTGGATCTTCATTCTTAAGCAGTATAGAGACACAGCCAGCTCAGGAAGAAC
 ACAGAGAGGCCAGATTCTGAAACGAAGGAAGGAGAAGGGATTGAAGAGTGTCTGGAACAGAGGTGAA
 AGAGGACCCAGAGTCAAGAGCAGAGAGAGAACCCGAAGCCTCCCAGAAGCCGCTCAGAAGACACAGAAC
 ATGCACTGTAAGGTCTCCTTGTGGATGACACGGTCTACGAATGTGTGTAGAGAAACATGCTAAGGGAC
 AAGACTTGCTGAAGCGAGTGTGCGAGCACCTCAACCTTTTGAAGAAGACTACTTTGGTTTAGCCCTGTG
 GGACAGCGCAACCTCTAAGACATGGCTGGATTCTGCCAAAGAAATAAAAAGCAGGTTCCGAGGTGTTCT
 TGGAAATTCACATTTAATGTGAAGTTTTATCCACCCGACCCAGCACAAATTAACAGAAGACATAACAAGAT
 ACTATTTATGTCTTCAGCTTCGGCAGGACATTGTTGCTGGACGCTGCCCTGTTCTTTGCAACTTTAGC
 CCTACTCGGGTCTTACACGATCCAGTCTGAGCTGGGAGACTATGACCCAGAACTGCACGGCATGGATTAT
 GTTAGTGATTTAAACTGGCTCCAAATCAGACCAAGGAACCTGAAGAAAAGGTGATGGAATTCATAAAT
 CATACAGGTCCATGACTCCAGCTCAGGTGACTTGGAAATTTCTTGAGAATGCCAAAAGTTGCTCCATGTA
 TGGAGTTGATCTTCAAAAGCAAAGACTTGGAGGGAGTGGACATTATTCTCGGGCTCTGCTCCAGCGGC
 CTCTGGTTTACAAGACAAGTTGAGAATTAACCGCTTTCTTGGCCCAAAGTGCTAAAGATTTCTTACA
 AACGCAGCAGCTTCTTCAAGATCCGGCCTGGAGAGCAAGAACATTATGAAAGTACCATCGGCTTCAA
 GCTCCCCAGTTATCGAGCGGCCAAGAACTATGGAAGGTCTGTGTGGAGCATCACACGTTCTCAGACTC
 ACCTCTACAGACACCATCCCCAAAAGCAAGTTTCTTGCCTGGGATCCAATTCAGTACAGTGGCCGGA
 CTCAAGCTCAGACCAGGCAAGCCAGTGCCTGATTGACAGGCCTGCTCCACACTTGAGCGGACAGCAAG
 CAAGCGGGCGTCCAGGAGCCTCGATGGAGCAGCAGCTGCTGAGTCCACAGACCGAAGTCTCGGCCACC
 TCTGCCACGCCATTGCTCAGAGTCAGGTACAGAAGGGCCAGGGGCACCTATCAAAAAACACCAAAGG
 AAGCTGTGAAGGTTGAAGAGAAGCGGGGAGAAGAGCCGGCTGAGCCCGTGAAGCCGAGCCACAGAAGC
 ATGGAAGGTGAAAAAACCCACACCGAGGTCACAGTACCTACCTCAAATGGTGACAAACGCAGAAGCTT
 GCAGGAAAAGGTGAAGATCTGATAAGAATGAGGAAGAAAAGAGAGAGAGACTAGATGGTAAAACATTT
 ATATCAGACATAGCAATTTAATGTTGGAGGATTTAGACAAGAGTCAAGAAGAGATCAAAAAGCACCATGC
 CAGCATCAGTGAAGTAAAAAGAACTTTATGGAATCGGTACCCGAACACGGCCAGCGAGTGGGACAAG
 CGCTTATCTACACTCACCTTCCGGACTCTTAACATCAACGGGCAAGTCCCTACTGGAGATGGACCTC
 CTCTGGTAAAGACTCAAAGTGTACCATCTCAGATACTGCCAATGCTGTGAAAAGTGAATCCCAACCAA
 AGATGTCCCTATTGTCCACTGAGACCAAGACCATCACCTATGAAGCTGCCAGACTGAGGACAGCAAT
 GGGGACTTAGACCTGGAGTCTTGCTGACAGCCAGACCATCACATCCGAGACCACAAGTAGTACAACCA
 CGACACAGATTACCAAGACTGTAAGAGGTGGGATTTCTGAGACCCGGATCGAGAAGAGAATTGTGATCAC
 AGGAGATGCCGATATCGACCATGATCAGGTCTTGTACAAGCCATCAAGGAAGCCAAAGGAGCAGCATCCA
 GACATGTCAGTGACCAAGGTGGTCTCCACCAGGAGACAGAGATCTCTGAGGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_183428
Insert Size: 2577 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.
RefSeq:	NM_183428.3 , NP_906273.3
RefSeq Size:	6565 bp
RefSeq ORF:	2577 bp
Locus ID:	269587
UniProt ID:	P48193
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 (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq was created from transcript and genomic sequence data because transcript sequence consistent with the reference genome assembly was not available for all regions of the RefSeq transcript, The extent of this transcript is supported by transcript alignments.</p>