

Product datasheet for **MC219468**

Epb41 (NM_001128607) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epb41 (NM_001128607) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Epb41
Synonyms:	4.1R; AI415518; D4Ertd442e; Elp-1; Elp1; Epb4.1; mKIAA4056
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219468 representing NM_001128607
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCACTGTAAGTCTCCTTGTGGATGACACGGTCTACGAATGTGTTGTAGAGAAACATGCTAAGGGAC
 AAGACTTGCTGAAGCGAGTGTGCGAGCACCTCAACCTTTTGAAGAAGACTACTTTGGTTTAGCCCTGTG
 GGACAGCGCAACCTCTAAGACATGGCTGGATTCTGCCAAAGAAATAAAAAAGCAGGTTCCGAGGTGTTCTT
 TGGAAATTCACATTTAATGTGAAGTTTTATCCACCCGACCCAGCACAATTAACAGAAGACATAACAAGAT
 ACTATTTATGTCTTCAGCTTCGGCAGGACATTGTTGCTGGACGTCTGCCCTGTTCTTTGCAACTTAGC
 CCTACTCGGGTCTTACACGATCCAGTCTGAGCTGGGAGACTATGACCCAGAAGTGCACGGCATGGATTAT
 GTTAGTGATTTAACTGGCTCCAAATCAGACCAAGGAAGTGAAGAAAAGGTCATGGAATTGCATAAAT
 CATAACAGTCCATGACTCCAGCTCAGGCTGACTTGGAAATTTCTTGAGAATGCCAAAAAGTTGCCATGTA
 TGGAGTTGATCTTCAAAAGCAAAGGACTTGGAGGGAGTGGACATTATTCTCGGCGTCTGCTCCAGCGGC
 CTTCTGGTTTACAAAGACAAGTTGAGAATTAACCGCTTTCTTGGCCCAAAGTGCTAAAGATTTCTTACA
 AACGCAGCAGCTTCTTCAAGATCCGGCCTGGAGAGCAAGAACATTATGAAAGTACCATCGGCTTCAA
 GCTCCCGAGTTATCGAGCGGCCAAGAACTATGGAAGGCTGTGTGGAGCATCACACGTTCTTACAGACTC
 ACCTCTACAGACACCATCCCAAAAGCAAGTTTCTTGGCCTGGGATCCAAATTCGATACAGTGGCCGGA
 CTCAAGCTCAGACCAGGCAAGCCAGTGCCTGATTGACAGGCTGCTCCACACTTTGAGCGGACAGCAAG
 CAAGCGGGCGTCCAGGAGCTCGATGGAGCAGCAGCTGCTGAGTCCACAGACCGAAGTCTCGGCCACCC
 TCTGCCACAGCATTGCTCAGAGTCAGGTCACAGAAGGGCCAGGGGCACCTATCAAAAAACACCAAAGG
 AAGCTGTGAAGGTTGAAGAGAAGCGGGGAGAAGAGCCGGCTGAGCCCGCTGAGCCGGAGCCACAGAAGC
 ATGGAAGGATTTAGACAAGAGTCAAGAAGAGATCAAAAAGCACCATGCCAGCATCAGTGAAGTGAAGAAAG
 AACTTTATGGAATCGGTACCCGAACACGGCCAGCGAGTGGGACAAGCGCTTATCTACACACTCACCTT
 TCCGGACTCTTAACATCAACGGCAAGTCCCTACTGGAGATGGACCTCCTCTGGTAAAGACTCAAAGTGT
 CACCATCTCAGATACTGCCAATGCTGTGAAAAGTGAATCCCAACCAAAGATGTCCTATTGTCCACACT
 GAGACCAAGACCATCACCTATGAAGCTGCCAGACTGAGGACAGCAATGGGGACTTAGACCCTGGAGTCT
 TGCTGACAGCCCAGACCATCACATCCGAGACCACAAGTAGTACAACCACGACACAGATTACCAAGACTGT
 AAAAGGTGGGATTTCTGAGACCCGGATCGAGAAGAGAATTGTGATCACAGGAGATGCCGATATCGACCAT
 GATCAGGTCCTTGTACAAGCCATCAAGGAAGCCAAGGAGCAGCATCCAGACATGTCAGTGACCAAGGTGG
 TCGTCCACCAGGAGACAGAGATCTCTGAGGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001128607

Insert Size: 1785 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_001128607.1 , NP_001122079.1
RefSeq Size:	5067 bp
RefSeq ORF:	1785 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 (3) lacks multiple in-frame exons, uses an alternate 5' splice site, and uses a different 5' UTR, compared to variant 1. These differences cause translation initiation at a downstream ATG and an isoform (3) that is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>