

## Product datasheet for **MC217454**

### **Epb41I4b (NM\_019427) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Epb41I4b (NM_019427) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Epb41I4b
Synonyms:	6430543G08Rik; AA589614; AU021054; BB007528; D4Ertd346e; Ehm2; Epb4.1I4b; Lulu2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC217454 representing NM\_019427  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTGCGGTTCTCTGCGCCGACCTTTGGCCGCCCTCCATGCAGCGCTACGCGCGGGCGCGCGGGG  
 GCGGGGCCGCGGGCTGGGGGACGAGCGGACGGGGGCCGCGAGGGGGCCCGGCTGCCCGCCAGCTC  
 CTCGGTGTGCCCGCGCCCGGGGAGCGTATTCCCGGCCGCGCGGGGCCCTGCTCACCGCGCGC  
 GCGGCTGTGCACATCTCCGCCTCGGGAGCTGCCAAGGCCACCCTTTACTGCCGTGTCTTCTGCTCGACG  
 GAACCGAAGTGAGCGTGGACCTGCCAAACATGCCAAAGGCCAGGATTTGTTTCGACCAGATTGTGTACCA  
 CTTGGACCTGGTGAACAGATTATTTGGTCTGCAGTTCCTCGACTCTGCCAGGTCACGCACTGGCTG  
 GATCACGCGAAACCCATAAAGAAACAGATGAAAGTGGGACCTGCCTATGCCTTGCCTTTCGAGTCAAAT  
 ACTATTCTTCAGAACAAACAACCTTCGAGAGGAATTTACAAGGTACCTGTTTGTTCACAACTCAGGCA  
 TGACATTTCTTGGAAAATTGAAGTGCCCTATGAAACGCGCGTGGAACTAGCTGCCCTGTCTGCAA  
 GCGGAGCTAGGAGAGTGTGAGCTCCCGGAACACACGCGCGAGCTTGTGTCTGAGTTTCGGTTCATCCCAA  
 ATCAGACAGAAGCCATGGAGTTCGATATCTCCAGAGATGGAAAGAGTACAGGGGAAAGAGCCCTGCCCA  
 GGCGGAACTCTCTATCTGAACAAAGCGAAGTGGCTGGAATGTATGGAGTGGACATGCATGTTGTGAGG  
 GGAAGAGATGGCTGTGAATATTCTTTGGACTGACCCCGACAGGCATATTAATCTTTGAAGGAGTAAACA  
 AAATAGGCTTATCTTTTGGCCTAAGATCACCAAAATGGACTTTAAAAAGAGTAAACTGACCCTCGTAGT  
 AGTGGAAGATGATGACCAGGGCGTGAGCAAGAGCACACCTTCGTGTTTCAGGCTGGACAGTGCAGTACC  
 TGCAAGCACTTGTGGAAGTGTGCAGTGGAGCACCATGCCTTCTCCGCTGCGCACACCCAGCAACAGCA  
 AGTCCGCGAGATCTGACTTCATCCGGCTGGGTTCCCGCTTCCGTTTCAGTGGACGCGGAATATCAAGC  
 TACACACGGCTCCAGATTGCGAAGAACCAGCACCTTTGAGAGGAAGCCTAGCAAACGTTACCCGTCCCGG  
 CGACATTCACATTCAAAGCGAGCAACCCAGTAATTGCTGCTCAGCTCTGCTCTAAAGCAAATCCTGAAG  
 TCCACAATTACCAGCCTCAGTACCATCCTGACGTCCACCCAGCCAGCCCGGTGGCGCCCTCACTCTCC  
 AAATGTCAGTAACCATTCCATCTGCAAACAAACAAGCCATGTTTTTCAGGATGACAGGCCACACTGGAAA  
 ACCTCAGCCAGTGGAGATGGCAGCCACTTTGACTATGTCCAGGACCAGAACCAGAGGAACCTAGGAGGGG  
 CGTACAGTGTACGTACCGGGACAAACTCATGACCGCACTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_019427

**Insert Size:** 1584 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:**

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\\_019427.2](#), [NP\\_062300.2](#)

**RefSeq Size:** 2966 bp

**RefSeq ORF:** 1584 bp

**Locus ID:** 54357

**UniProt ID:** [Q9JMC8](#)

**Cytogenetics:** 4 31.66 cM

**Gene Summary:** Up-regulates the activity of the Rho guanine nucleotide exchange factor ARHGEF18 (PubMed:22006950). Involved in the regulation of the circumferential actomyosin belt in epithelial cells (PubMed:22006950). Promotes cellular adhesion, migration and motility in vitro and may play a role in wound healing (By similarity). May have a role in mediating cytoskeletal changes associated with steroid-induced cell differentiation (By similarity). [UniProtKB/Swiss-Prot Function]