

## Product datasheet for **RN213236**

### **Epb41I4b (NM\_001127565) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Epb41I4b (NM_001127565) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Epb41I4b
Synonyms:	RGD1562988
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN213236 representing NM\_001127565  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTGCGGTTCTCTGCGCCGACCTTTGGCCGCCGCTCCATGCAGCGCTACGCGCGGGCGCGCGGGGCG  
 GCGGGGCCGCGGGCTGGGGGACGAGCGGACGCGGGGGCCGCGAGGGGGCCCGGCCGCGCCGAGCTC  
 CTCGTGCTGCCCGCGCGCCGGGGTAGCGTGTCCCGGCCGCGCGGGGCCCTGCTCACCGCGCGC  
 GCGGCTGTGCACATCTCCGCTCGGGAGCTGCCAAGGCCACCCTTTACTGCCGTGCTTCTGCTCGACG  
 GAACCGAAGTGAGCGTGGACCTGCCAAACATGCCAAAGGCCAGGATTTGTTGACCAGATTGTGTACCA  
 CTTGGACCTGGTGAACAGATTATTTGGTCTGCAGTTTCTCGACTCCGCCAGGTCACGCACTGGCTG  
 GATCACTCGAAACCCATAAAGAAGCAGATGAAAGTCGGACCTGCCTACGCTTTGCACTTTGAGTCAAAT  
 ACTATTCTTCAGAACCGAACCTTCGAGAGGAATTTACAAGGTACCTGTTTGTCTACAACCTCAGGCA  
 TGACATTTCTTGAAAACTGAAGTGCCCTATGAAACAGCCGTGGAAGTACGCTCCCTCTGTCTGCAA  
 GCGGAGCTAGGAGAGTGTGAGCTCCCGAACACACACCGGAGCTTGTGTCTGAGTTTCGGTTCATCCCAA  
 ATCAGACAGAAGCCATGGAGTTCGATATCTCCAGAGATGGAAAGAGTACAGGGGAAAGAGCCCTGCCCA  
 GGCGGAATCTCTATCTGAACAAAGCGAAGTGGCTGGAATGTATGGGGTGGACATGCATGTTGTGAGG  
 GGAAGAGATGGCTGTGAATATTCTTGGACTGACCCGACAGGCATATTAATCTTTGAAGGAGTAAACA  
 AAATAGGCTTATTCTTTGGCCTAAGATCACAAAATGGACTTTAAAAAGAGCAAACCTGACCCTCGTGGT  
 AGTGGAGGATGACGACAGGGGCGTGAGCAAGAGCACACCTTCGTGTTGAGGCTGGACAGCGCGCACC  
 TGCAAGCACCTGTGGAAGTGCCTGTGGAGCACACGCTTCTCCGCTGCGCACGCCAGCAACAGCA  
 AGTCCGCCAGATCCGACTTCATCCGGCTGGTTCGGCTTCCGTTGAGTGGACGGACAGAAATATCAAGC  
 TACACACGGCTCCAGATTGCGAAGAACCAGCACCTTTGAGAGGAAGCCTAGCAAACGTTACCCTTCCCGG  
 CGACATTCACATTCAAAGCGAGCAACCCAGTATTGCTGCCAGCTCTGCTCTAAAACAATCCTGAAG  
 TCCATAACTACCAGCTCAGTTTCATCCTAACGTCCACCCAGCCAGCCAGGTGGCGCCCTCACTCCCC  
 AAATGTCAGTAACCATTCACCTGCAAACAAAACAAGCCGTCTTTTCAGGATGACAGGCCGCACTGGAAA  
 GCCTCAGCCAGTGGAGATGACGGCCACTTTGACTATGTCCACGACCAGAACCAGAGGAACCTAGGAGGGG  
 CGTACAGTGTACATACCGGGACAACTCATGACCGCACTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001127565

**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\\_001127565.1](#), [NP\\_001121037.1](#)

**RefSeq Size:** 2218 bp

**RefSeq ORF:** 1584 bp

**Locus ID:** 500464

**UniProt ID:** [B2RYE5](#)

**Cytogenetics:** 5q24

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