

Product datasheet for **MR217939**

Epb41I4b (NM_019427) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epb41I4b (NM_019427) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Epb41I4b
Synonyms:	6430543G08Rik; AA589614; AU021054; BB007528; D4Erttd346e; Ehm2; Epb4.1I4b; Lulu2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217939 representing NM_019427
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCGGTTCTCTGCGCCGACCTTTGGCCGCCCTCCATGCAGCGCTACGCGCGGGGCGCGCGGGG
 GCGGGGCCGCGCGGCTGGGGGACGAGCGGACGCGGGGGCCGCGAGGGGGCCCGGCTGCCCGCCAGCTC
 CTCGGTGTGCCCGCGCGCCCGGGGACGCGTATTCCCGGCGCGCGGGGCCCTGCTCACCGCGCGC
 GCGGCTGTGCACATCTCCGCCTCGGGAGCTGCCAAGGCCACCCTTTACTGCCGTGCTTCTCTCGACG
 GAACCGAAGTGAGCGTGGACCTGCCAAACATGCCAAAGGCCAGGATTTGTTTCGACCAGATTGTGTACCA
 CTTGGACCTGGTGAACAGATTATTTGGTCTGCAGTTCCTCGACTCTGCCAGGTCACGCACTGGCTG
 GATCACGCGAAACCCATAAAGAAACAGATGAAAGTGGGACCTGCCTATGCCTTGCCTTTCGAGTCAAT
 ACTATTCTTCAGAACAAACAACCTTCGAGAGGAATTTACAAGGTACCTGTTTGTTCACAACTCAGGCA
 TGACATTTCTTGGAAAATTGAAGTGCCCTATGAAACGCGCGTGGAACTAGCTGCCCTGTCTGCAA
 GCGGAGCTAGGAGAGTGTGAGCTCCCGGAACACACGCCCGAGCTTGTGTCTGAGTTTCGGTTCATCCCAA
 ATCAGACAGAAGCCATGGAGTTCGATATCTCCAGAGATGGAAAGAGTACAGGGGAAAGAGCCCTGCCCA
 GGCGGAACTCTCTATCTGAACAAAGCGAAGTGGCTGGAATGTATGGAGTGGACATGCATGTTGTGACGG
 GGAAGAGATGGCTGTGAATATTCTTTGGACTGACCCCGACAGGCATATTAATCTTTGAAGGAGCTAACAA
 AAATAGGCTTATCTTTTGGCCTAAGATCACAAAATGGACTTTAAAAAGAGTAACTGACCCTCGTAGT
 AGTGGAAGATGATGACCAGGGCGGTGAGCAAGAGCACACCTTCGTGTTTACGGCTGGACAGTGCAGTACC
 TGCAAGCACTGTGGAAGTGTGCAGTGGAGCACCATGCCTTCTCCGCTGCGCACACCCAGCAACAGCA
 AGTCCGCCAGATCTGACTTCATCCGGCTGGTCCCGCTTCCGGTTCAGTGGACGCGGAATATCAAGC
 TACACACGGCTCCAGATTGCGAAGAACCAGCACCTTTGAGAGGAAGCCTAGCAAACGTTACCCGTCCCGG
 CGACATTCACATTCAAAGCGAGCAACCCAGTAATTGCTGCTCAGCTCTGCTCTAAAGCAATCCTGAAG
 TCCACAATTACCAGCCTCAGTACCATCCTGACGTCCACCCAGCCAGCCCGGTGGCGCCCTCACTCTCC
 AAATGTCAGTAACCATTCCATCTGCAAACAAAACAAGCCATGTTTTTACGGATGACAGGCCACACTGGAAA
 ACCTCAGCCAGTGGAGATGGCAGCCACTTTGACTATGTCCAGGACCAGAACCAGAGGAAGTATAGGAGGGG
 CGTACAGTGTACGTACCGGGACAAACTCATGACCGCACTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217939 representing NM_019427
 Red=Cloning site Green=Tags(s)

MLRFLRRTFGRRSMQRYARGAAGRGAAGLGDERDGGPRGGPAAAASSSVLPAAPGGSVFPAGGGPLLTTGG
 AAVHISASGAAKATLYCRVFLLDGTEVSVDLPHKAKGQDLFDQIVYHLDLVETDYFGLQFLDSAQVTHWL
 DHAKPIKQMKVGPAYALHFRVKYSSSEPNLREEFTRYLVFLQLRHDILSGKLCOPYETAVELAALCLQ
 AELGECPEHTPELVSEFRFIPNQTEAMEFDIFQRWKEYRGKSPAQAELSYLNKAKWLEMYGVDMMHVVR
 GRDGCEYSLGLTPTGILIFEGANKIGLFFWPKITKMDFKKSKLTLVVVEDDDQGREQEHTFVRLDSART
 CKHLWKCAVEHHAFRLRTPSNSKSARSDFIRLGSFRFSGRTEYQATHGSRLRRTSTFERKPSKRYPSR
 RHSTFKASNPVIAAQLCSKANPEVHNYQPQYHPDVHPSQPRWRPHSPNVSNHSICKQNKPCFQDDRPHWK
 TSASGDGSHFDYVQDQNRNLGGAYSVTYRDKLMTAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9089_g01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_019427

ORF Size: 1581 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

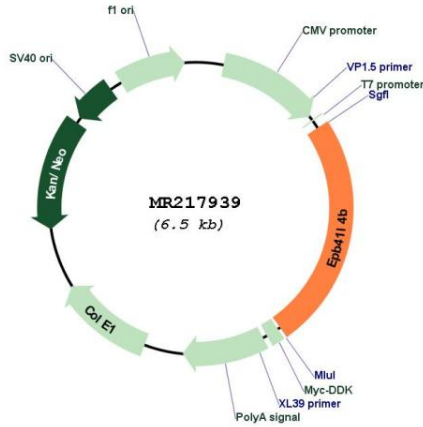
UniProt ID: [Q9JMC8](#)

Cytogenetics: 4 31.66 cM

MW: 59.6 kDa

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]

Product images:



Circular map for MR217939