

## Product datasheet for **MG217939**

### **Epb41I4b (NM\_019427) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Epb41I4b (NM_019427) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Epb41I4b
Synonyms:	6430543G08Rik; AA589614; AU021054; BB007528; D4Erttd346e; Ehm2; Epb4.1I4b; Lulu2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217939 representing NM\_019427  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCGGTTCTCGCGCGGACCTTTGGCCGCCGCTCCATGCAGCGCTACGCGCGGGGCGCGCGGGG  
 GCGGGGCCGCGGGCTGGGGGACGAGCGGACGCGGGGGCCGCGAGGGGGCCCGGCTGCCGCCAGCTC  
 CTCGGTGTGCCCGCGCGCCCGGGGACGCGTATCCCGGCGCGCGGGGCCCTGCTCACCGCGGC  
 GCGGCTGTGCACATCTCCGCCTCGGGAGCTGCCAAGGCCACCCTTTACTGCCGTGTCTTCTGCTCGACG  
 GAACCGAAGTGAGCGTGGACCTGCCAAACATGCCAAAGGCCAGGATTTGTTCCGACCAGATTGTGTACCA  
 CTTGGACCTGGTGAACAGATTATTTGGTCTGCAGTTCCTCGACTCTGCCAGGTCACGCACTGGCTG  
 GATCACGCGAAACCCATAAAGAAACAGATGAAAGTGGGACCTGCCTATGCCTTGCCTTTCGAGTCAAAT  
 ACTATTCTTCAGAACAAACAACCTTCGAGAGGAATTTACAAGGTACCTGTTTGTTTTACAACCTCAGGCA  
 TGACATCTTTTGGAAAATTGAAGTGCCCTATGAAACGGCCGTGGAAGTACCTGCCCTCTGTCTGCAA  
 GCGGAGCTAGGAGAGTGTGAGCTCCCGGAACACACGCCCGAGCTTGTGTCTGAGTTTCGGTTCATCCCAA  
 ATCAGACAGAAGCCATGGAGTTCGATATCTCCAGAGATGGAAAGAGTACAGGGGAAAGAGCCCTGCCCA  
 GGCGGAATCTCCTATCTGAACAAAGCGAAGTGGCTGGAATGTATGGAGTGGACATGCATGTTGTGAGG  
 GGAAGAGATGGCTGTGAATATTCTTTGGACTGACCCCGACAGGCATATTAATCTTTGAAGGAGCTAAAC  
 AAATAGGCTTATCTTTTGGCCTAAGATCACAAAATGGACTTTAAAAAGAGTAAACTGACCCTCGTAGT  
 AGTGGAAGATGATGACCAGGGCGGTGAGCAAGAGCACACCTTCGTGTTTCCAGGCTGGACAGTGCAGTACC  
 TGCAAGCACTTGTGGAAGTGTGCAGTGGAGCACCATGCCTTCTCCGCTCGCGCACCCAGCAACAGCA  
 AGTCCGCCAGATCTGACTTCATCCGGCTGGTCCCGCTTCCGTTTCCAGTGGAGCGGGAATATCAAGC  
 TACACACGGCTCCAGATTGCGAAGAACCAGCACCTTTGAGAGGAAGCCTAGCAAACGTTACCCGTCCCGG  
 CGACATCCACATTCAAAGCGAGCAACCCAGTAATTGCTGCTCAGCTCTGCTCTAAAGCAATCCTGAAG  
 TCCACAATTACCAGCCTCAGTACCATCCTGACGTCCACCCAGCCAGCCCGGTGGCGCCCTCACTCTCC  
 AAATGTCAGTAACCATTCCATCTGCAAACAAAACAAGCCATGTTTTTCCAGGATGACAGGCCACACTGGAAA  
 ACCTCAGCCAGTGGAGATGGCAGCCACTTTGACTATGTCCAGGACCAGAACCAGAGGAAGTATAGGAGGGG  
 CGTACAGTGTACGTACCGGGACAAACTCATGACCGCACTT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG217939 representing NM\_019427  
 Red=Cloning site Green=Tags(s)

MLRFLRRTFGRSMQRYARGAAGRGAAGLGDERDGGPRGGPAAAASSSVLPAAPGGSVFPAGGGPLL TGG  
 AAVHISASGAAKATLYCRVFLLDGTEVSVDLPHKAKGQDLFDQIVYHLDLVETDYFGLQLDSAQVTHWL  
 DHAKPIKKQMKVGPAYALHFRVKYYSSEPNNLREEFTRYLFVLQLRHDILSGKLCOPYETAVELAALCLQ  
 AELGECPEHTPELVSEFRFIPNQTEAMEFDIFQRWKEYRGKSPAQELSYLNKAKWLEMYGVMHVVR  
 GRDGCEYSLGLTPTGILIFEGANKIGLFFWPKITKMDFKKSKLTLVVVEDDDQGREQEHFVFRLDSART  
 CKHLWKCAVEHHAFFRLRTPSNSKSARSDFIRLGSFRFSGRTEYQATHGSRLRRTSTFERKPSKRYPSR  
 RHSTFKASNPVIAAQLCSKANPEVHNYQPQYHPDVHPSQPRWRPHSPNVSNHSICKQNKPCFQDDRPHWK  
 TSASGDGSHFDYVQDQNRNLGGAYSVTYRDKLM TAL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul



<b>ACCN:</b>	NM_019427
<b>ORF Size:</b>	1581 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_019427.2</a> , <a href="#">NP_062300.2</a>
<b>RefSeq Size:</b>	2966 bp
<b>RefSeq ORF:</b>	1584 bp
<b>Locus ID:</b>	54357
<b>UniProt ID:</b>	<a href="#">Q9JMC8</a>
<b>Cytogenetics:</b>	4 31.66 cM
<b>Gene Summary:</b>	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]