

Product datasheet for **MR225786**

Epb41 (NM_183428) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epb41 (NM_183428) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Epb41
Synonyms:	4.1R; AI415518; D4Ertd442e; Elp-1; Elp1; Epb4.1; mKIAA4056
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225786 representing NM_183428
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAACAGAGAAGAGTTTAGCGGCTGAAGCTGAGAATTCTCAGCACCAGCAACAGAAGGAAGAAGGAG
 AGGGAGCCACAACTCAGGCCAACAAAGAACTCAGCTGGAGGAGGCTCCCAAGCGGCCGAGCTGAGGG
 CAGCGATCAGGGTGAGCAGAAGCTGAAAGCATCCAATGGGGACTCCAACACATGAAGACTTGACCAAG
 AACAAAGGAACGGACATCAGAAAGCAGAGGCTGTACGACTGCTCTCCTCATTCTCAAAAGGCCAAAGT
 CGCAGGTCTCTGAAGAAGAAGGCAGAGAAGTAGAATCAGAGAAAGAGAAAGGTGAAGGGGTGAGAAGGA
 GATAGAACTTGAAACAGCCTTGATGAAGACATCATTTTAAAGGCCCCATTGCAGCTCTGAACCTGAG
 CTCAAAACAGACCCATCTTTGGATCTTCATTCTTAAGCAGTATAGAGACACAGCCAGCTCAGGAAGAAC
 ACAGAGAGACCCAGATTCTGAAACGAAGGAAGGAGAAGGGATTGAAGAGTGTCTGGAACAGAGGTGAA
 AGAGGACCCAGAGTCAAGAGCAGAGAGAGAACCCGAAGCTCCCAGAAGCCGCTCAGAAGACACAGAAC
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 AAGACTTGCTGAAGCGAGTGTGCGAGCACCTCAACCTTTTGAAGAAGACTACTTTGGTTTAGCCCTGTG
 GGACAGCGCAACCTCTAAGACATGGCTGGATTCTGCCAAAGAAATAAAAAAGCAGGTTCCAGGTGTTCTT
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 GTTAGTGATTTAACTGGCTCCAAATCAGACCAAGGAAGTGAAGAAAAGTCAATGGAATTCATATAAT
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 ACCTCTACAGACACCATCCCCAAAAGCAAGTTTCTTGCCTGGGATCCAATTCAGTACAGTGGCCGGA
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 CAAGCGGGCGTCCAGGAGCTCGATGGAGCAGCAGCTGCTGAGTCCACAGACCGAAGTCTCGGCCACC
 TCTGCCCCAGCCATTGCTCAGAGTCAGGTACAGAAGGGCCAGGGGCACCTATCAAAAAACACCAAGG
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 GACATGTCAGTGACCAAGGTGGTCTCCACCAGGAGACAGAGATCTCTGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225786 representing NM_183428
 Red=Cloning site Green=Tags(s)

MTTEKSLAAEAENSQHQQQKEEGEGATNSGQQETQLEEASQAAAAEGSDQGEQKLKASNGDTPTHEDLTK
 NKERTSESRLSRLSSFLKRPKSQVSEEEGREVESEKEKGEQQKEIELGNSLDEDIILKAPIAAPEPE
 LKTDPSLDLHSLSSIETQPAQEEHREDPSETKEGEGIEECSGTEVKEDPESRAEREPEASQKPVRRHRN
 MHCKVSLDDDTVYECVVEKHAKGQDLLKRVCEHLNLEEDYFGLALWDSATSKTWLDSAKEIKKQVRGVP
 WNFVFNVKFYPPDPAQLTEDITRYLCLQLRQDIVAGRIPCFSFATLALLGSYTIQSELGDYDPELHGMDY
 VSDFKLAPNQTKELKVMELHKSYSMTPAQADLEFLENAKKLSMYGVDLHKAKDLEGVDIILGVCSSG
 LLVYKDKLRINRFPWPKVLKISYKRSSFFIKIRPGEQEHYESTIGFKLPSYRAAKLWKVCVEHHTFFRL
 TSTDTIPKSKFLALGSKFRYSGRTQAQTRQASALIDRPAPHFERTASKRASRLDGAAAAESTDRSPRT
 SAPAIAQSQVTEGPGAPIKKTPEAVKVEEKRGEEPAEPAEPEPTAEWKVEKTHTEVTVPTSNGDQTKL
 AGKGEDLIRMKKKRERLDGENIYIRHSNLMLEDLDKSQEEIKKHHASISELKNFMESVPEPRPSEWDK
 RLSTHSPFRTLNINGQVPTGDGPPLVKTQTVTISDTANAVKSEIPTKDVPVHTETKTITYEAAQTEDSN
 GDLDPGVLLTAQITSETTSSTTTTQITKTVKGGISETRIEKRIVITGDADIDHDQVLVQAIKEAKEQHP
 DMSVTKVVVHQETEISEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

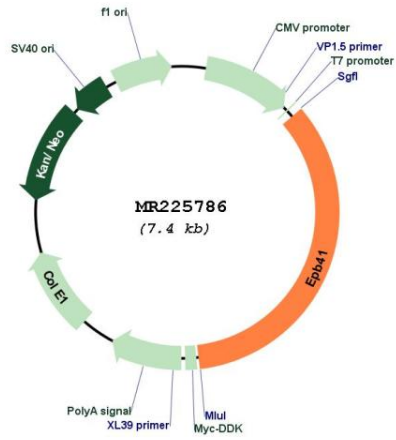
SgfI-MluI

Cloning Scheme:



ACCN:	NM_183428
ORF Size:	2574 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:	<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_183428.3 , NP_906273.3
RefSeq Size:	6565 bp
RefSeq ORF:	2577 bp
Locus ID:	269587
UniProt ID:	P48193
Cytogenetics:	4 64.54 cM
MW:	96.4 kDa
Gene Summary:	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]

Product images:



Circular map for MR225786