

Product datasheet for **MR217046**

Epb4111 (NM_013510) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epb4111 (NM_013510) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Epb4111
Synonyms:	4.1N; Epb4.111; mKIAA0338; NBL1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR217046 representing NM_013510
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAACAGAGACAGGTCCCGATTCTGAGGTGAAGAAGGCTCAGGAGGAGACTCCACAGCAGCCCGAGG
 CTGCCGCAGCTGTGACCACCCCGGTGACCCCGGGGCCACAGCCACCCAGAGACCAATTCGAATGAGAA
 GCATCTGACCCAGCAGGACACGAGGCTGCTGAACAGAGCCTGGATATGGACGATAAGGATTACAGTGAG
 GCCGATGGCCTGTGCGAGAGGACCACGCCAGTAAGGCCAGAAGTCACCTCAGAAGATTGCCAAGAAGT
 TCAAGAGTGCCATATGCCGCGTACCCTGCTCGATGCTTCTGAGTATGAGTGTGAAGTGGAGAAGCACGG
 CCGGGGCCAGGTGCTGTTTGACCTGGTCTGTGAGCACCTAACCTCCTGGAGAAGGACTACTTCGGTCTG
 ACCTACTGTGATGCTGACAGCCAGAAGAATTGGCTGGACCCCTCAAGGAAATCAAGAAGCAGATCCGGA
 GTAGCCCTTGGAACTTTGCCCTTACAGTCAAGTTCTACCCTCCTGACCCAGCTCAGTGACAGAAGACAT
 CACAAGTACTACCTGTGCTGCAGCTGAGGGCAGACATTATCACAGGCCGCTGCCTTGTCTCTTTGTC
 ACGCATGCCCTTCTGGGCTCCTACGCTGTGACGGCTGAACTGGGTGACTATGATGCCGAGGAACAGTGG
 GCAACTATGTGAGTGTGCTCCGCTTCGCCCAAAACCAGACCCGGGAGCTGGAGGAGAGGATCATGGAGT
 GCATAAGACATACAGGGGCATGACCCCGGGCGAGGCAGAGATCCACTTCTGGAGAACGCCAAGAAGCTC
 TCCATGTATGGAGTTGACCTGCATCACGCTAAGGATTCTGAGGGCATCGATATCATGCTAGGTGTCTGTG
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 GGCTTCAAGTCCCTAACACCGCTCAGCAAGCGGTTGTGGAAGTCTGCATCGAGCACACACGTTCT
 TCCGGCTGGTGTACCGGAGCCCCACCCAAGGGCTTTCTGGTGTGGGCTTCAAGTCCGGTACAGTGG
 GAGGACGACGGCCAGACCCGCAAGCCAGTGCCCTTATCGACCGACCCGCCCTTCTTTGAACGTTCT
 TCCAGCAAACGCTATACCATGTCCCGCAGCCTTGATGGAGCAGAGTTCTCCCGCCTGCCTCAGTCAGTG
 AGAATCACGATGCAGGGCCTGACGGTGACAAGCGGAAGATGACGCCGAGTCAAGGGGACGCCGATCAGA
 GGCTGAAGAAGGAGAGGTGAGGACACCCACCAAGATCAAGGAGCTGAAGCCGGAGCAGGAAACCACGCCA
 CGACACAAGCAGGAGTTCCTGGACAAGCCAGAGGATGTCTTGTGAAGCACCAGGCCAGCATCAATGAAC
 TCAAGAGGACCTGAAGGAGCCCAACAGCAAATGATCCACCGGATCGAGACTGGGATCGGGAGCGCAG
 GCTGCCCTCGTCGCTGCCTCCCCCTCCCCAAGGGCACCCCGAAAAAGCCAGTGAAGAGCAGGGCTG
 AGGGAGGGCTCAGAGGAGAAAGTCAAACCACCGCCACGTGCCCCAGAGAGCGACACGGGAGATGAGG
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 CATTACGGTCAGTCCACGTCCAGCCTGGAGGCTGAGGTGGACTTACCGTTATTGGTGACTACCATGGC
 GGCGCCTTTGAAGACTTCTCCCGAAGCCTCCCTGAGCTTGATCGGGATAAAAAGTACTCTGAGACAGAGG
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 ACGGCGCCACCGGAAACCTCTCAACCTCTACCACCACCATGTACCAAAACTGTGAAGGGAGGGTT
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 GCTTTGGCCATCAAGGAAGCCAACTACAGCATCCAGACATGCTGGTAACCAAAGCTGTTGTCTATAGAG
 AAACAGACCCATCCCGGAGGAGAGACAAAGAAGCCACAGGAATCC

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217046 representing NM_013510
 Red=Cloning site Green=Tags(s)

MTTETGPDSEVKKAQEETPQQPEAAAAVTTPVTPAGHSHPETNSNEKHLTQQDTRPAEQSLDMDKDYSE
 ADGLSERTTPSKAQKSPQKIAKFKSAICRVTLLDASEYECEVEKHGRGQVLFDLVCEHLNLEKDYFGL
 TYCDADSQKNWLDPSKEIKKQIRSSPWNFAFTVKFYPPDPAQLTEDITRYYLCLQLRADIITGRLPCSFV
 THALLGSYAVQAE LGDYDAEEHVGNYVSELRFAPNQTRLEERIMELHKTYRGMTPGEAEIHFL ENAKKL
 SMYGVDLHHA KDSEGIDIMLGVCANGLLIYRDRLRINRF AWPKILKISYKRSNFYIKIRPGEYEQFESTI
 GFKLPNHRS AKRLWKVCI EHHFTFRLVSP EPPKGFV MGSKFRYSGR TQAQTRQASALIDRPAPFFERS
 SSKRYTMSRSLDGA EFSRPASVSENHDAGPDGDKREDDAESGRRSEAE EGEV RPTPKIKELKPEQETTP
 RHKQEF LDKPEDVLLKHQASINELKRTLKEPNSKL IHRDRDWRERRLPSSPASPS PKGTPEKASERAGL
 REGSEEKVKPPRPRAPESDTGDEDQDQERDAVFLKDNHLAIERKCSSITV SSTSSLEAEVDFTVIGDYHG
 GAFEDFSRSLPELDRDKSDSETEGLV FARDLKGPS SQEDES GGLEDSPDRGACSTPEMPQFESVKAETMT
 VSLAIRKKIEPEAMLQSRVSAADSTQVDGGTPMVKDFMTTPPCITTETI STTMENSLKSGKGAAMIPG
 PQTVATEIRSLSPIIGKDVLTSTYGATAETLSTSTTHVTKTVKGGFSETRIEKRIITGDEDVDQDQAL
 ALAIKEAKLQHPDMLVTKAVVYRETDPSPEERDKKPQES

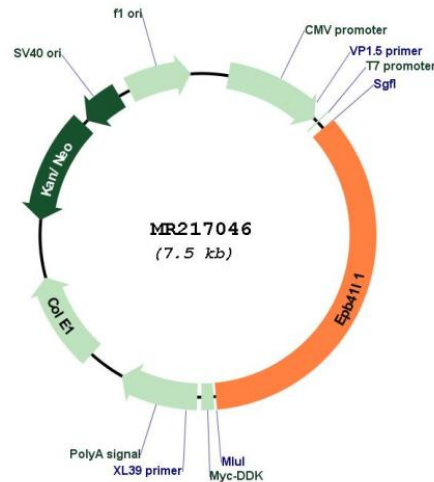
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_013510

ORF Size: 2637 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_013510.4](#)

RefSeq Size: 6298 bp

RefSeq ORF: 2640 bp

Locus ID: 13821

UniProt ID: [Q9Z2H5](#)

Cytogenetics: 2 77.39 cM

MW: 98.8 kDa

Gene Summary: May function to confer stability and plasticity to neuronal membrane via multiple interactions, including the spectrin-actin-based cytoskeleton, integral membrane channels and membrane-associated guanylate kinases.[UniProtKB/Swiss-Prot Function]