

Product datasheet for **MR231008**

Epb4111 (NM_001291123) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epb4111 (NM_001291123) 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:

>MR231008 representing NM_001291123
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAACAGAGACAGGTCCCGATTCTGAGGTGAAGAAGGCTCAGGAGGAGACTCCACAGCAGCCCGAGG
 CTGCCGCAGCTGTGACCACCCCGGTGACCCCGGGGCCACAGCCACCCAGAGACCAATTCCAATGAGAA
 GCATCTGACCCAGCAGGACACGAGGCTGCTGAACAGAGCCTGGATATGGACGATAAGGATTACAGTGAG
 GCCGATGGCCTGTGAGAGAGGACCACGCCAGTAAGGCCAGAAGTCACCTCAGAAGATTGCCAAGAAGT
 TCAAGAGTGCCATATGCCGCGTACCCTGCTCGATGCTTCTGAGTATGAGTGTGAAGTGGAGAAGCACGG
 CCGGGGCCAGGTGCTGTTTGACCTGGTCTGTGAGCACCTAACCTCCTGGAGAAGGACTACTTCGGTCTG
 ACCTACTGTGATGCTGACAGCCAGAAGAATTGGCTGGACCCTCAAGGAAATCAAGAAGCAGATCCGGA
 GTAGCCCTTGAAGTTTGCCTTACAGTCAAGTTCTACCCTCCTGACCCAGCTCAGTGACAGAAGACAT
 CACAAGTACTACCTGTGCTGCAGCTGAGGGCAGACATTATCACAGGCCGCTGCCTTGTCTCTTTGTC
 ACGCATGCCCTTCTGGGCTCCTACGCTGTGACGGCTGAACTGGGTGACTATGATGCCGAGGAACAGTGG
 GCAACTATGTGAGTGTGCTCCGCTTCGCCCAAAACCAGACCCGGGAGCTGGAGGAGAGGATCATGGAGT
 GCATAAGACATACAGGGGCATGACCCCGGGCGAGGCAGAGATCCACTTCTGGAGAACGCCAAGAAGCTC
 TCCATGTATGGAGTTGACCTGCATCACGCTAAGGATTCTGAGGGCATCGATATCATGCTAGGTGTCTGTG
 CCAATGGCCTGCTCATCTACCGGACCGCTGAGAATCAACCGCTTTGCCTGGCCCAAGATTCTCAAGAT
 CTCCTACAAGAGGAGTAAGTTCTACATCAAGATCCGGCTGGGGAGTATGAGCAGTTTGAGAGCACCATC
 GGCTTCAAGCTCCCTAACACCGCTCAGCCAAGCGTTGTGGAAGTCTGCATCGAGCACCACAGTTCT
 TCCGGCTGGTGTACCGGAGCCCAACCAAGGGCTTTCTGGTGTGGGCTCCAAGTTCCGGTACAGTGG
 GAGGACGCAAGGCCAGACCCGCAAGCCAGTGCCTTATCGACCGACCCGCCCTTCTTTGAACGTTCT
 TCCAGCAAACGCTATACCATGTCCCGCAGCCTTGATGGAGAGTTCTCCCGCCTGCCTCAGTCAGTGAGA
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 TTGTTGAAGCACCAGGCCAGCATCAATGAACTCAAGAGGACCCTGAAGGAGCCCAACAGCAAATGATCC
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 CCCGAAAAAGCCAGTGAGTCTGTGAAAGCAGAAACCATGACCGTCAGCAGTCTGGCAATCAGGAAGAAG
 ATTGAGCCAGAGGCCATGCTGCAAAGCAGAGTCTCCGCTGCAGACAGCACCAGGTTGATGGGGTACTC
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 TCTCTTTACCGATCATCGGAAAGATGTCTCACCAGCACGTACGGCGCCACCGCGAAACCCTCTCAA
 CCTCTACCACCACCCATGTACCAAAACTGTGAAGGGAGGGTTTTCTGAGACAAGGATCGAAAAGCGAAT
 CATCATTACTGGGGATGAAGATGTCGATCAAGACCAGGCCCTGGCTTTGGCCATCAAGGAAGCCAAACTA
 CAGCATCCAGACATGCTGGTAACCAAAGCTGTTGTCTATAGAGAAACAGACCCATCCCCGGAGGAGAGAG
 ACAAGAAGCCACAGGAATCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231008 representing NM_001291123
 Red=Cloning site Green=Tags(s)

MTTETGPDSEVKKAQEETPQQPEAAAAVTTPVTPAGHSHPETNSNEKHLTQQDTRPAEQSLDMDDKDYSE
 ADGLSERTTPSKAQKSPQKIAKKFKSAICRVTLLDASEYECEVEKHGRGQVLFDLVCEHLNLEKDYFGL
 TYCDADSQKNWLDPSKEIKKQIRSSPWNFAFTVKFYPPDPAQLTEDITRYLCLQLRADIITGRLPCSFV
 THALLGSYAVQAELGDYDAEEHVGNYVSELRFAPNQTRLEERIMELHKTYRGMTPGEAEIHFLNNAKLL
 SMYGVDLHHAADSEGIDIMLGVCANGLLIYRDRLRINRFAPKILKISYKRSNFYIKIRPGEYEQFESTI
 GFKLPNHRSAKRLWKVCIHHHTFFRLVSPPEPPKGLVMGSKFRYSGRTOAQTRQASALIDRPAPFFERS
 SSKRYTMSRSLDGEFSRPASVSENHDAGPDGDKREDDAESGRRSEAEEGEVTRPTKIKELKFLDKPEDV
 LLKHQASINELKRTLKEPNKSLIHRDRDWRERRLPSSPASPSPKGTPEKASESVKAETMTVSSLAIRKK
 IEPEAMLQSRVSAADSTQVDGGTPMVKDFMTTPPCITTETISTTMENSLKSGKGAAMIPGPQTVATEIR
 SLSPIIGKDVLTSTYGATAETLSTSTTHVTKTVKGGFSETRIEKRIITGDEDVDQDALALAIKEAKL
 QHPDMLVTKAVVYRETDPSPEERDKKPQES

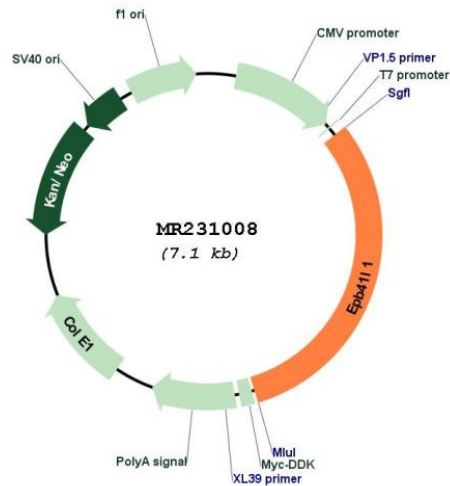
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001291123

ORF Size: 2190 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_001291123.1](#), [NP_001278052.1](#)

RefSeq Size: 6059 bp

RefSeq ORF: 2193 bp

Locus ID: 13821

UniProt ID: [Q9Z2H5](#)

Cytogenetics: 2 77.39 cM

MW: 82.3 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]