

Product datasheet for **MR231011**

Epb4111 (NM_001291122) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epb4111 (NM_001291122) 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:

>MR231011 representing NM_001291122
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAACAGAGACAGGTCCCGATTCTGAGGTGAAGAAGGCTCAGGAGGAGACTCCACAGCAGCCCGAGG
 CTGCCGACAGTGTGACCACCCCGGTGACCCCGGGGCCACAGCCACCCAGAGACCAATTCGAATGAGAA
 GCATCTGACCCAGCAGGACACGAGGCTGCTGAACAGAGCCTGGATATGGACGATAAGGATTACAGTGAG
 GCCGATGGCCTGTGAGAGAGGACCACGCCAGTAAGGCCAGAAGTCACTCAGAAGATTGCCAAGAAGT
 TCAAGAGTGCCATATGCCGCGTACCCTGCTCGATGCTTCTGAGTATGAGTGTGAAGTGGAGAAGCACGG
 CCGGGGCCAGGTGCTGTTTGACCTGGTCTGTGAGCACCTAACCTCCTGGAGAAGGACTACTTCGGTCTG
 ACCTACTGTGATGCTGACAGCCAGAAGAATTGGCTGGACCCCTCAAGGAAATCAAGAAGCAGATCCGGA
 GTAGCCCTTGGAACTTTGCCTTACAGTCAAGTTCTACCCTCCTGACCCAGCTCAGTGACAGAAGACAT
 CACAAGTACTACCTGTGCTGCAGCTGAGGGCAGACATTATCACAGGCCGCTGCCTTGTCTCTTTGTC
 ACGCATGCCCTTCTGGGCTCCTACGCTGTGACGGCTGAACTGGGTGACTATGATGCCGAGGAACAGTGG
 GCAACTATGTGAGTGTGCTCCGCTTCGCCCAAAACCAGACCCGGGAGCTGGAGGAGAGGATCATGGAGTT
 GCATAAGACATACAGGGGCATGACCCCGGGCGAGGCAGAGATCCACTTCTGGAGAACGCCAAGAAGCTC
 TCCATGTATGGAGTTGACCTGCATCACGCTAAGGATTCTGAGGGCATCGATATCATGCTAGGTGTCTGTG
 CCAATGGCCTGCTCATCTACCGGACCGCTGAGAATCAACCGCTTTGCCTGGCCCAAGATTCTCAAGAT
 CTCCTACAAGAGGAGTAACCTTACATCAAGATCCGGCCTGGGGAGTATGAGCAGTTTGAGAGCACCATC
 GGCTTCAAGCTCCCTAACACCGCTCAGCCAAGCGTTGTGGAAGTCTGCATCGAGCACCACAGTTCT
 TCCGGCTGGTGTACCGGAGCCCCACCCAAGGGCTTTCTGGTGTGGGCTCCAAGTTCCGGTACAGTGG
 GAGGACGACGGCCAGACCCGCCAAGCCAGTGCCTTATCGACCGACCCGCCCTTCTTTGAACGTTCT
 TCCAGCAAACGCTATACCATGTCCCGCAGCCTTGATGGAGCAGAGTTCTCCCGCCTGCCTCAGTCAGTG
 AGAATCACGATGCAGGGCCTGACGGTGACAAGCGGAAGATGACGCCGAGTCAAGGGGACGCCGATCAGA
 GGCTGAAGAAGGAGAGGTGAGGACACCCACCAAGATCAAGGAGCTGAAGTTCTGGACAAGCCAGAGGAT
 GTCTTGTGAAGCACCAGGCCAGCATCAATGAACTCAAGAGGACCCTGAAGGAGCCCAACAGCAAATGA
 TCCACCGGATCGAGACTGGGATCGGGAGCGCAGGCTGCCCTCGTCGCTGCCTCCCTCCCAAGGG
 CACCCCGAAAAAGCCAGTGTGAGTCTGTGAAAGCAGAAACCATGACCGTCAGCAGTCTGGCAATCAGGAAG
 AAGATTGAGCCAGAGGCCATGCTGCAAAGCAGAGTCTCCGCTGCAGACAGCACCCAGGTTGATGGGGTA
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 CGTTCTCTTTACCGATCATCGGAAAGATGTCCTCACCAGCAGTACGGCGCCACCGCGGAAACCTCT
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 AATCATCATTACTGGGGATGAAGATGTCGATCAAGACCAGGCCCTGGCTTTGGCCATCAAGGAAGCCAAA
 CTACAGCATCCAGACATGCTGGTAACCAAAGCTGTTGTCTATAGAGAAACAGACCCATCCCCGAGGAGA
 GAGACAAGAAGCCACAGGAATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231011 representing NM_001291122
 Red=Cloning site Green=Tags(s)

MTTETGPDSEVKKAQEETPQQPEAAAAVTTPVTPAGHSHPETNSNEKHLTQQDTRPAEQSLDMDDKDYSE
 ADGLSERTTPSKAQKSPQKIAKKFKSAICRVTLLDASEYECEVEKHGRGQVLFDLVCEHLNLEKDYFGL
 TYCDADSQKNWLDPSKEIKKQIRSSPWNFAFTVKFYPPDPAQLTEDITRYLCLQLRADIIITGRLPCSFV
 THALLGSYAVQAELGDYDAEEHVGNYVSELRFAPNQTRLEERIMELHKTYRGMTPGEAEIHFLNNAKLL
 SMYGVDLHHAADSEGIDIMLGVCANGLLIYRDRLRINRF AWPKILKISYKRSNFYIKIRPGEYEQFESTI
 GFKLPNHRSAKRLWKVCI EHHFFRLVSPPEPPKGLVMGSKFRYSGRTQAQTRQASALIDRPAPFFERS
 SSKRYTMSRSLDGA EFSRPASVSENHDAGPDGDKREDDAESGRRSEAE EGEVRTPTKIKELKFLDKPED
 VLLKHQASINELKRTLKEPNSKLIHRDRDWRERRLPSSPASPSPKGTPEKASESVKAETMTVSSLAIRK
 KIEPEAMLQSRVSAADSTQVDGGTPMVKDFMTTPPCITTETISTTMENSLKSGKGAAMIPGPQTVATEI
 RLSPIIGKDLTSTYGATAETLSTSTTHVTKTVKGGFSETRIEKRIIITGDEDVDQDQALALAIKEAK
 LQHPDMLVTKAVVYRETDPSP EERDKKPQES

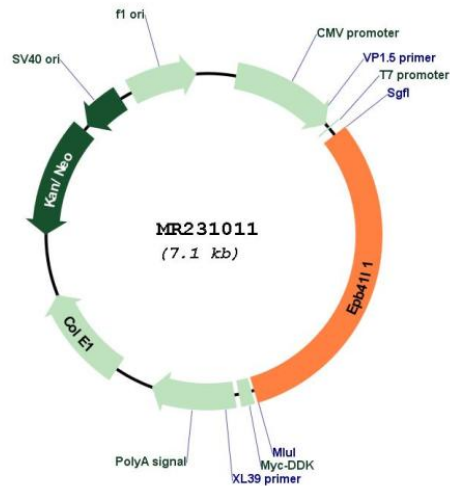
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001291122

ORF Size: 2193 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_001291122.1](#), [NP_001278051.1](#)

RefSeq Size: 6062 bp

RefSeq ORF: 2196 bp

Locus ID: 13821

UniProt ID:	Q9Z2H5
Cytogenetics:	2 77.39 cM
MW:	82.4 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]