

## Product datasheet for **MR231312**

### **Epb4111 (NM\_001291120) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Epb4111 (NM_001291120) 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:**

>MR231312 representing NM\_001291120  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACAACAGAGACAGGTCCCGATTCTGAGGTGAAGAAGGCTCAGGAGGAGACTCCACAGCAGCCCGAGG  
 CTGCCGACAGTGTGACCACCCCGGTGACCCCGGGGCCACAGCCACCCAGAGACCAATTCCAATGAGAA  
 GCATCTGACCCAGCAGGACACGAGGCTGCTGAACAGAGCCTGGATATGGACGATAAGGATTACAGTGAG  
 GCCGATGGCCTGTGCGAGAGGACCACGCCAGTAAGGCCAGAAGTCACCTCAGAAGATTGCCAAGAAGT  
 TCAAGAGTGCCATATGCCGCGTACCCTGCTCGATGCTTCTGAGTATGAGTGTGAAGTGGAGAAGCACGG  
 CCGGGGCCAGGTGCTGTTTGACCTGGTCTGTGAGCACCTAACCTCCTGGAGAAGGACTACTTCGGTCTG  
 ACCTACTGTGATGCTGACAGCCAGAAGAATTGGCTGGACCCCTCAAGGAAATCAAGAAGCAGATCCGGA  
 GTAGCCCTTGGAACTTTGCCCTTACAGTCAAGTTCTACCCTCCTGACCCAGCTCAGTGACAGAAGACAT  
 CACAAGTACTACCTGTGCTGCAGCTGAGGGCAGACATTATCACAGGCCCTGCCTTGTCTCTTTGTC  
 ACGCATGCCCTTCTGGGCTCCTACGCTGTGACGGCTGAACTGGGTGACTATGATGCCGAGGAACAGTGG  
 GCAACTATGTGAGTGTGCTCCGCTTCCGCCAAACCAGACCCGGGAGCTGGAGGAGAGGATCATGGAGTT  
 GCATAAGACATACAGGGGCATGACCCCGGGCGAGGCAGAGATCCACTTCTGGAGAACGCCAAGAAGCTC  
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 CCAATGGCCTGCTCATCTACCGGACCGCTGAGAATCAACCGCTTTGCCCTGGCCCAAGATTCTCAAGAT  
 CTCCTACAAGAGGAGTAACTTCTACATCAAGATCCGGCTGGGGAGTATGAGCAGTTTGAGAGCACCATC  
 GGCTTCAAGTCCCTAACACCGCTCAGCAAGCGGTTGTGGAAGTCTGCATCGAGCACACACGTTCT  
 TCCGGCTGGTGTACCGGAGCCCAACCAAGGGCTTTCTGGTGTGGGCTCCAAGTTCCGGTACAGTGG  
 GAGGACGACGGCCAGACCCGCAAGCCAGTGCCTTATCGACCGACCCGCCCTTCTTTGAACGTTCT  
 TCCAGCAAACGCTATACCATGTCCCGCAGCCTTGATGGAGCAGAGTTCTCCCGCCTGCCTCAGTCAGTG  
 AGAATCACGATGCAGGGCCTGACGGTGACAAGCGGAAGATGACGCCGAGTCAAGGGGACGCCGATCAGA  
 GGCTGAAGAAGGAGAGGTGAGGACCCACCAAGATCAAGGAGCTGAAGCCGGAGCAGGAAACCACGCCA  
 CGACACAAGCAGGAGTTCCTGGACAAGCCAGAGGATGTCTTGTGAAGCACCAGGCCAGCATCAATGAAC  
 TCAAGAGGACCTGAAGGAGCCCAACAGCAAATGATCCACCGGATCGAGACTGGGATCGGGAGCGCAG  
 GCTGCCCTCGTCGCTGCCTCCCCCTCCCCAAGGGCACCCCGAAAAAGCCAGTGAAGAGCAGGGCTG  
 AGGGAGGGCTCAGAGGAGAAAGTCAAACCACCGCCACGTGCCCCAGAGAGCGACACGGGAGATGAGG  
 ACCAGGACCAGGAGAGGGACCGGTATTCTGAAGGACAACCACCTGGCCATTGAGCGCAAGTGCTCCAG  
 CATTACGGTCAGTCCACGTCCAGCCTGGAGGCTGAGGTGGACTTACCGTTATTGGTGACTACCATGGC  
 GGCGCCTTTGAAGACTTCTCCCGAAGCCTCCCTGAGCTTGATCGGGATAAAAAGTACTCTGAGACAGAGG  
 GCCTGGTGTTCGCCCGGATCTCAAGGGCCCTCCAGCCAAGAGGATGAATCTGGGGGCCTCGAGGACAG  
 CCCGGATCGAGGGGCTGTTCCACTCCAGAAATGCCCCAGTTTGAGTCTGTGAAAGCAGAAACCATGACC  
 GTCAGCAGTCTGGCAATCAGGAAGAAGATTGAGCCAGAGGCCATGCTGCAAAGCAGAGTCTCCGCTGCAG  
 ACAGCACCCAGGTTGATGGGGTACTCCAATGGTGAAGACTTTCATGACAACTCCCCCTGCATCCACC  
 AGAGACCATCTCAACCACCATGGAGAACAGTCTCAAGTCCGGGAAGGGGAGCTGCCATGATCCCAGGC  
 CCACAGACGGTGGCCACGAAATCCGTTCTTTTACCAGTATCGGGAAAGATGCTCCTCACCAGCACGT  
 ACGGCGCCACCGGAAACCTCTCAACCTCTACCACCACCATGTACCAAAACTGTGAAGGGAGGGTT  
 TTCTGAGACAAGGATCGAAAAGCGAATCATATTACTGGGGATGAAGATGTCGATCAAGACCAGGCCCTG  
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 AAACAGACCCATCCCGGAGGAGAGACAAGAAGCCACAGGAATCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR231312 representing NM\_001291120  
 Red=Cloning site Green=Tags(s)

MTTETGPDSEVKKAQEETPQQPEAAAAVTTPVTPAGHSHPETNSNEKHLTQQDTRPAEQSLDMDDKYSE  
 ADGLSERTTPSKAQKSPQKIAKFKSAICRVTLLDASEYECEVEKHGRGQVLFDLVCEHLNLLKDYFGL  
 TYCDADSQKNWLDPSKEIKKQIRSSPWNFAFTVKFYPPDPAQLTEDITRYYLCLQLRADIITGRLPCSFV  
 THALLGSYAVQAE LGDYDAEEHVGNYVSELRFAPNQTRLEERIMELHKTYRGMTPGEAEIHFL ENAKKL  
 SMYGVDLHHA KDSEGIDIMLGVCANGLLIYRDRLRINRF AWPKILKISYKRSNFYIKIRPGEYEQFESTI  
 GFKLPNHRSAKRLWKVCI EHHHTFFRLVSP EPPPKGFLVMGSKFRYSGRTQAQTRQASALIDRPAPFFERS  
 SSKRYTMSRSLDGA EFSRPASVSENHDAGPDGDKREDDAESGRRSEAE EGEVVRTPTKIKELKPEQETTP  
 RHKQEF LDKPEDVLLKHQASINELKRTLKEPNSKL IHRDRDWRERRLPSSPASPSKGTPEKASERAGL  
 REGSEEKVKPPRPAPESDTGDEDQDQERDAVFLKDNHLAIERKCSSITVSSTSSLEAEVDFTVIGDYHG  
 GAFEDFSRSLPELDRDKSDSETEGLVFARDLKGPSQDESGGLESDPRGACSTPEMPQFESVKAETMT  
 VSLAIRKKIEPEAMLQSRVSAADSTQVDGGTPMVKDFMTTPPCITTETI STTMENSLKSGKGAAMIPG  
 PQTVATEIRSLSPIIGKDVLTSTYGATAETLSTSTTHVTKTVKGGFSETRIEKRIITGDEDVDQDQAL  
 ALAIKEAKLQHPDMLVTKAVVYRETDPSPEERDKKPQES

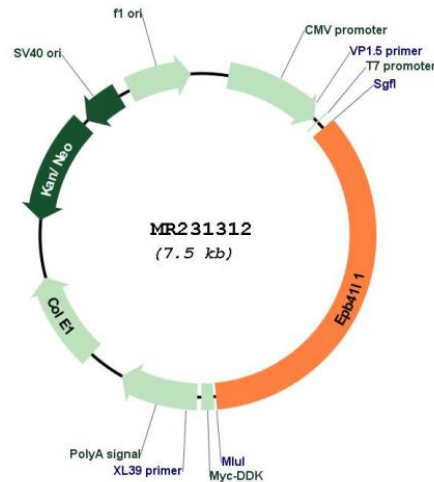
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001291120

**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\\_001291120.1](#), [NP\\_001278049.1](#)

**RefSeq Size:** 6506 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]