

Product datasheet for **RC234819**

EPB4IL2 (EPB41L2) (NM_001252660) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB4IL2 (EPB41L2) (NM_001252660) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EPB4IL2
Synonyms:	4.1-G; 4.1G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC234819 representing NM_001252660
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTACTGAAGTAGGCTCTGTGTCTGAAGTGAAGAAGGACTCTAGCCAGTTAGGAACAGATGCAACCA
 AGGAAAAACCTAAAGAAGTAGCAGAAAAATCAGCAGAATCAGTCTTCCGATCCAGAGGAGGAAAAAGTTTC
 CCAGCCACCTCCTGCAGCTGAAAGCCAAAGTAGTCTACGCCGCCAGAAGAGAGAGAAGGAAACATCGGAG
 AGCAGGGGTATTTCTCGTTTCATACCGCCATGGCTTAAGAAGCAAAAGTCATATACCTTAGTAGTGGCCA
 AAGATGGAGGAGATAAAAAAGAGCCTACCCAAGCTGTTGTTGAAGAACAGGTCTTAGATAAAGAGGAACC
 CCTTCCAGAAGAACAGAGACAGGCTAAGGGTGATGCTGAAGAAATGGCTCAGAAGAAACAAGAGATTAAA
 GTTGAAGTCAAGGAAGAAAAACCTCAGTGAGCAAGGAAGAAAAACCTCAGTGAGCAAAGTGGAGATGC
 AGCCTACTGAATTAGTAAGTAAAGAGAGAGAAGAGAAGGTAAGAAACACAGGAAGACAAATTAGAAGG
 AGGAGCAGCAAAAAGGGAGACCAAGGAAGTGCAGACCAATGAGCTGAAAGCAGAGAAGGCATCTCAAAA
 GTCACCAAGAAGACCAAAACTGTCCAGTGTAAAGTGACCTCTTAGATGGCACCGAATACAGCTGTGACC
 TGGAGAAACATGCCAAGGACAAGTGTATTGACAAAGTGTGTGAACACCTCAATCTCTTGGAGAAAGA
 CTACTTTGGACTTTTGTTCAGGAAAGCCCTGAGCAGAAAAACTGGTTAGATCCTGCTAAAGAAATAAAG
 AGACAACCTGAGAAACCTTCCATGGCTATTCACCTTTAATGTGAAGTTTTATCCTCCTGATCCTTCTCAAT
 TGACTGAAGATATCACCAGATACTTCTGTGCCTTCAGCTCCGGCAGGACATTGCCTCTGGCCCGCTGCC
 CTGCTCTTTGTGACTCATGCTCTCCTGGGATCCTACACCCTGCAGGCTGAACCTGGTACTATGACCCA
 GAAGAACATGGCAGCATCGACCTCAGTGAATCCAGTTTGCCCTACTCAGACTAAGGAGCTGGAAGAGA
 AGGTGGCAGAGCTGCACAAAACCCACAGGGGCTTATCGCCAGCACAAGCTGATTTCCAGTCTTAGAAAA
 TGCAAAGAGGCTTCCATGTATGGTGTTGACCTACATCATGCCAAGGACTCAGAAGGTGTGGACATCAAG
 CTGGGCGTGTGTGCTAATGGACTTCTATTACAAAGACAGACTGCGAATCAATCGTTTTGCTTGGCCGA
 AAATCTAAAAATTTCTATAAACCGAGTAACTTCTACATTAAGTCAAGCCGCGAGAGCTGGAACAGTT
 TGAGAGTACCATTGGATTCAAACGCCAAACCACCGGGCAGCGAAAAGACTATGGAAAGTGTGCGTGGAG
 CATCATACTTTCTACAGGCTTGTTCCTCAGAGCAGCCACCAAAAGCCAAGTTCCTGACCTTGGGGTCCA
 AATTTTCGCTATAGTGGCCGACCCAAGCACAGACCCGCCAGGCCAGCACCTCATAGATAGGCCAGCACC
 ACACCTTTGAGCGCACTTCTAGTAAACGGGTCTCCAGGAGTCTAGATGGAGCTCCGATTGGTGTGATGGAC
 CAAAGTCTTATGAAGATTTTCTGGCGTGTGGGGAGATTTACGCCTATGGACCTGGACTTGTGAGCA
 TTGCCGTGTTACAAGATGGGGACGGCAGGAGGGAAGTGAGAAGCCCAACTAAAGCCACATTTGCAGCT
 CATTGAAGGAAAGCCACCAGTGGTAAAAACAGAGATGGTAAACAATTTCTGATGCCTCACAAAGGACAGAA
 ATCTCCACCAAGGAAGTCCCATTTGTCCAAACTGAGACCAAAACCATCACATATGAGTCTCCACAGATTG
 ATGGCGGGGCTGGTGGTATTCCGGGCACGTTACTGACCGCACAACCATCACATCTGAGTCCGTGTCAAC
 AACGACAACCACACATACCAAGACTGTAAAAGGTGGAATTTCTGAAACAAGAATTGAGAAACGCATT
 GTGATCACAGGAGATGGAGATTTGATCATGACCAGGCACTGGCTCAGGCGATCAGGAAGCCAGAGAGC
 AGCACCTGACATGTCCGTACAAGAGTGGTGGTACACAAAGAAACAGAGTTGGCTGAGGAAGGGGAAGA
 T

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234819 representing NM_001252660
Red=Cloning site Green=Tags(s)

MTTEVGSVSEVKKDSSQLGTDATKEPKPEVAENQQNQSSDPEEEKGSQPPPAESQSSLRQKREKETSE
 SRGISRFIPPWLKKQKSYTLVAKDGGDKKEPTQAVVEEQVLDKEEPLPEEQRAKGADEEMAQKKQEIK
 VEVKKEKPSVSKEEKPSVSKVEMQPTLVSKEREKVKETQEDKLEGGAAKREKVEVQTNELKAEKASQK
 VTKKTKTVQCKVTLLEDGTEYSCDLEKHAKGOVLFDKVCEHLNLEKDYFGLLFQESPEQKNWLDPAKEIK
 RQLRNLPLWLFNFVKFYPPDPSQLTEDI TRYFLCLQLRQDIASGRLPSCFVTHALLGSYTLQAE LGDYDP
 EEHGSIDLSEFQFAPTQTKELEEKVAELHKTHRGLSPAQADSQFLENAKRLSMYGVLDLHAKDSEGVDIK
 LGVCANGLLIYKDRLRINRFAWPKILKISYKRSNFYIKVRPAELEQFESTIGFKLPNHRAAKRLWKVCVE
 HHTFYRLVSPQPPKAKFLTGSKFRYSGRTQAQTRQASTLIDRPAPHFERTSSKRVSRSLDGAPIGVMD
 QSLMKDFPGAAGEISAYGPGLVSI AVVQDGDGRREVRSPTKAPHLQLIEGKPPVVKTEMVTISDASQRT
 ISTKEVPIVQTEKTIYESPQIDGGAGGDSGTLT AQTITSESVSTTTTTHITKTVKGGISETRIEKRI
 VITGDGDIDHDQALAQAI REAREQHPDMSVTRVVVHKETELAEED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001252660

ORF Size: 2241 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_001252660.1](#), [NP_001239589.1](#)

RefSeq Size: 3675 bp

RefSeq ORF: 2244 bp

Locus ID: 2037

UniProt ID: [O43491](#)

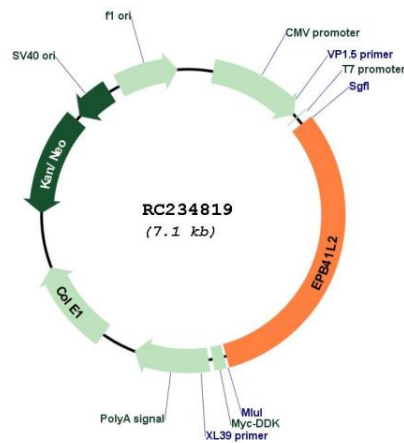
Cytogenetics: 6q23.1-q23.2

Protein Pathways: Tight junction

MW: 84.3 kDa

Gene Summary: Required for dynein-dynactin complex and NUMA1 recruitment at the mitotic cell cortex during anaphase (PubMed:23870127).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC234819