

Product datasheet for RC213821

EPB4IL2 (EPB41L2) (NM_001431) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB4IL2 (EPB41L2) (NM_001431) 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)
ORF Nucleotide Sequence:	>RC213821 representing NM_001431 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTACTGAAGTAGGCTCTGTGTCTGAAGTGAAGAAGGACTCTAGCCAGTTAGGAACAGATGCAACCA
AGGAAAAACCTAAAGAAGTAGCAGAAAAATCAGCAGAATCAGTCTCCGATCCAGAGGAGGAAAAAGTTCC
CCAGCCACCTCTGCAGCTGAAAGCCAAAGTAGTCTACGCCGCCAGAAGAGAGAGAAGGAAACATCGGAG
AGCAGGGGTATTCTCGTTTCATACCGCCATGGCTTAAGAAGCAAAGTCAATACCTTAGTAGTGGCCA
AAGATGGAGGAGATAAAAAAGAGCCTACCCAAGCTGTTGTTGAAGAACAGGTCTTAGATAAAGAGGAACC
CCTTCCAGAAGAACAGAGACAGGCTAAGGGTGATGCTGAAGAAATGGCTCAGAAGAAACAAGAGATTA
GTTGAAGTCAAGGAAGAAAAACCTCAGTGAGCAAGGAAGAAAAACCTCAGTGAGCAAAGTGGAGATGC
AGCCTACTGAATTAGTAAGTAAGGAGAGAGAAGAGAAGGTAAGAAACACAGGAAGACAAATTAGAAGG
AGGAGCAGCAAAAAGGGAGACCAAGGAAGTGCAGACCAATGAGCTGAAAGCAGAGAAGGCATCTCAAAA
GTCACCAAGAAGACCAAAACTGTCCAGTGTAAAGTACCCCTTTAGATGGCACCGAATACAGCTGTGACC
TGGAGAAACATGCCAAGGGACAAGTGTATTGACAAAGTGTGTGAACACCTCAATCTCTTGAGAAAGA
CTACTTTGGACTTTTGTTCAGGAAAGCCCTGAGCAGAAAAACTGGTTAGATCCTGCTAAGAAAATAAG
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TGACTGAAGATATCACCAGATACTTCTGTGCCTTCAGCTCCGGCAGGACATTGCCTCTGGCCGCTGCC
CTGCTCTTTTGTGACTCATGCTCTCCTGGGATCCTACACCCTGCAGGCTGAACTTGGTACTATGACCCA
GAAGAACATGGCAGCATCGACCTCAGTGAATTCAGTTTGCCCTACTCAGACTAAGGAGCTGGAAGAGA
AGGTGGCAGAGCTGCACAAAACCCACAGGGGCTTATCGCCAGCACAAGCTGATCCAGTTCTTAGAAAA
TGCAAAGAGGCTTTCCATGTATGGTGTGACCTACATCATGCCAAGGACTCAGAAGGTGTGGACATCAAG
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AAATCTTAAAAATTTCTATAAACGCAGTAACTTCTACATTAAGTCAAGCCGACAGCTGGAACAGTT
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CATCATACTTTCTACAGGCTTGTTCCTCCAGAGCAGCCACCAAAAGCCAAGTTCCTGACCTGGGGTCCA
AATTTTCGCTATAGTGGCCGACCCAAGCACAGACCCGCCAGGCCAGCACCTCATAGATAGGCCAGCACC
ACACTTTGAGCGCACTTCTAGTAAACGGGTCTCCAGGAGTCTAGATGGAGCTCCGATTGGTGTATGGAC
CAAAGTCTTATGAAGGATTTTCTGGCGCTGCTGGGGAGATTTACGCCTATGGACCTGGACTTGTGACGA
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CAACAACGACAACCACACACATACCAAGACTGTAAAAGTGGAAATTTCTGAAACAAGAATTGAGAAACG
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GAGCAGCACCCCTGACATGTCGGTACAAGAGTGGTGGTACACAAGAAACAGAGTTGGCTGAGGAAGGGG
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ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213821 representing NM_001431
Red=Cloning site Green=Tags(s)

MTTEVGSVSEVKKDSSQLGTDATKEKPKVAENQNNQSSDPEEEKGSQPPPAAESQSSLRRQKREKETSE
SRGISRFPWLKQKSYTLVVAKDGGDKKEPTQAVVEEQVLDKEEPLPEEQRQAKGDAEEMAQKKQEI
VEVKEEKPSVSKKEKPSVSKVEMQPTELVSKEREKVKETQEDKLEGGAAKRETKEVQTNELKAEKASQK
VTKKTKTVQCKVTLLDGTEYSCDLEKHAKGQVLFDKVCEHLNLEKDYFGLLFQESPEQKNWLDPAKEIK
RQLRNLPLWFTFNVKFYPPDPSQLTEDI TRYFLCLQLRQDIASGRLPCSFVTHALLGSYTLQAE LGDYDP
EEHGSIDLSEFQFAPTQTKLEEKVAELHKTHRGLSPAQADSQFLENAKRLSMYGVDLHHA KDSEGV DIK
LGVCANGLLIYKDRLRINRF AWPKILKISYKRSNFYIKVRPAELEQFESTIGFKLPNHRAAKRLWKVCVE
HHTFYRLVSPEQPPKAKFLT LGSKFRYSGR TQAQTRQASTLIDRPAPHFERTSSKRVSRLD GAPIGVMD
QSLMKDFPGAAGEISAYGPGLVSI AVVQDGDGRREVRSPTKAPHLQLIEGKKNSLRVEGDNIYVRHSNLM
LEELDKAQEDILKHQASISELKRNFMESTEPPEPRPNEWKRRITPLSLQTQGSSETLNI VEEKKRAEVGK
DERVITEEMNGKEISPGSGPGEIRKVEPVTKDSTLSSESSSSSESEEEEDVGEYRPHHRVTEGTIREE
QEYEEVEEVEEPRPAAKVVEREEAVPEASPV TQAGASVITVETVIQENVGAQKIPGEKSVHEGALKQDMGE
EAEEEPQKVNGEVSHVDIDVLPQIICCSEPPVVKTEMVTISDASQRTEISTKEVP IVQTEKTITYESPQ
IDGGAGGDSGTLT AQTITSESVSTTTTTHITKTVKGGISETRIEKRIVITGDDIDHDQALAQAI REAR
EQHPDMSVTRVVHKETELAE EGED

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001431

ORF Size: 3015 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.

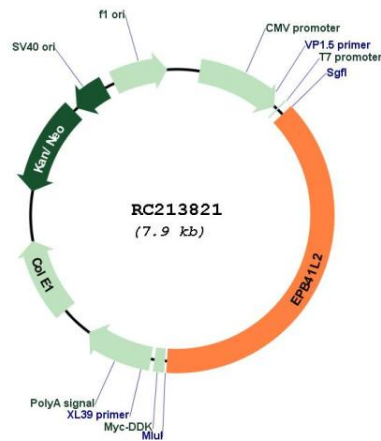
RefSeq: [NM_001431.4](#)

RefSeq Size: 4336 bp

RefSeq ORF: 3018 bp

Locus ID: 2037
UniProt ID: [O43491](#)
Cytogenetics: 6q23.1-q23.2
Domains: B41, SAB
Protein Pathways: Tight junction
MW: 112.4 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 RC213821