

## Product datasheet for **RC227898**

### EPB4IL2 (EPB41L2) (NM\_001135554) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EPB4IL2 (EPB41L2) (NM_001135554) 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)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RC227898 representing NM\_001135554  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTACTGAAGTAGGCTCTGTGTCTGAAGTGAAGAAGGACTCTAGCCAGTTAGGAACAGATGCAACCA  
 AGGAAAAACCTAAAGAAGTAGCAGAAAAATCAGCAGAATCAGTCTTCCGATCCAGAGGAGGAAAAAGTTCC  
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 AGGAGCAGCAAAAAGGGAGACCAAGGAAGTGCAGACCAATGAGCTGAAAGCAGAGAAGGCATCTCAAAAA  
 GTCACCAAGAAGACAAAACCTGTCAGTGTAAAGTGACCTCTTAGATGGCACCGAATACAGCTGTGACC  
 TGGAGAAACATGCCAAGGACAAGTGTATTGACAAAAGTGTGTGAACACCTCAATCTCTTGGAGAAAGA  
 CTACTTTGGACTTTTGTTCAGGAAAGCCCTGAGCAGAAAAACTGGTTAGATCCTGCTAAAGAAATAAAG  
 AGACAACCTGAGAAACCTTCCATGGCTATTCACCTTTAATGTGAAGTTTTATCCTCCTGATCCTTCTCAAT  
 TGACTGAAGATATCACCAGATACTTCTGTGCCTTCAGCTCCGGCAGGACATTGCCTCTGGCCGCCTGCC  
 CTGCTCTTTGTGACTCATGCTCTCCTGGGATCCTACACCCTGCAGGCTGAACCTGGTACTATGACCCA  
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 TGCAAAGAGGCTTCCATGTATGGTGTGACCTACATCATGCCAAGGACTCAGAAGGTGTGGACATCAAG  
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 AATTTTCGCTATAGTGGCCGACCCAAGCACAGACCCGCCAGGCCAGCACCCCTCATAGATAGGCCAGCACC  
 ACACCTTTGAGCGCACTTCTAGTAAACGGGTCTCCAGGAGTCTAGATGGAGCTCCGATTGGTGTGATGGAC  
 CAAAGTCTTATGAAGATTTTCTGGCGTGTGGGGAGATTTACGCCTATGGACCTGGACTTGTGACGA  
 TTGCCGTGTTACAAGATGGGGACGGCAGGAGGGAAGTGAAGCCCAACTAAAGCCCACATTTGCAGCT  
 CATTGAAGGAAAGACTGTAAAAGGTGGAATTTCTGAAACAAGAATTGAGAAACGCATTGTGATCACAGGA  
 GATGGAGATATTGATCATGACCAGGCACTGGCTCAGGCGATCAGGGAAGCCAGAGAGCAGCACCCCTGACA  
 TGTCGGTCAACAAGAGTGGTGGTACAAAAGAACAGAGTTGGCTGAGGAAGGGGAAGT

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC227898 representing NM\_001135554  
Red=Cloning site Green=Tags(s)

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MTTEVGSVSEVKKDSSQLGTDATKEPKPEVAENQQNQSSDPEEEKGSQPPPAESQSSLRQKREKETSE
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VEVKEEKPSVSKEEKPSVSKVEMQPTELVSKEREKVKETQEDKLEGGAAKRETKEVQTNELKAEKASQK
VTKKTKTVQCKVTLLEDGTEYSCDLEKHAKGOVLFDKVCEHLNLEKDYFGLLFQESPEQKNWLDPAKEIK
RQLRNLPLWLFNFVKFYPPDPSQLTEDI TRYFLCLQLRQDIASGRLPCSFVTHALLGSYTLQAE LGDYDP
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LGVCANGLLIYKDRLRINRFAWPKILKISYKRSNFYIKVPAELEQFESTIGFKLPNHRAAKRLWKVCVE
HHTFYRLVSPQPPKAKFLTGSKFRYSGRTQAQTRQASTLIDRPAPHFERTSSKRVSRSLDGAPIGVMD
QSLMKDFPGAAGEISAYGPLVSI AVVQDGDGRREVRSP TKAPHLQLIEGKTVKGGISETRIEKRIVITG
DGDIDHDQALAQAIAREAREQHPDMSVTRVVVHKETELAEED
  
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8072\\_d05.zip](https://cdn.origene.com/chromatograms/mk8072_d05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001135554

**ORF Size:** 2019 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\\_001135554.1](#), [NP\\_001129026.1](#)

**RefSeq ORF:** 2022 bp

**Locus ID:** 2037

**UniProt ID:** [O43491](#)

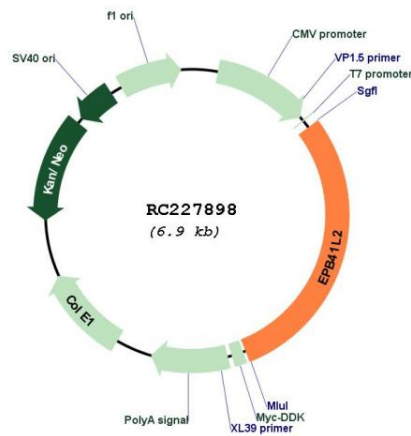
**Cytogenetics:** 6q23.1-q23.2

**Protein Pathways:** Tight junction

**MW:** 75.9 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 RC227898