

Product datasheet for **RG234819**

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:	TurboGFP
Symbol:	EPB4IL2
Synonyms:	4.1-G; 4.1G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234819 representing NM_001252660
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACTACTGAAGTAGGCTCTGTGTCTGAAGTGAAGAAGGACTCTAGCCAGTTAGGAACAGATGCAACCA
 AGGAAAAACCTAAAGAAGTAGCAGAAAAATCAGCAGAATCAGTCTTCCGATCCAGAGGAGGAAAAAGTTTC
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 AGCCTACTGAATTAGTAAGTAAAGAGAGAGAAGAGAAGGTAAGAAACACAGGAAGACAAATTAGAAGG
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 GTCACCAAGAAGACCAAAACTGTCCAGTGTAAAGTGACCTCTTAGATGGCACCGAATACAGCTGTGACC
 TGGAGAAACATGCCAAGGACAAGTGTATTGACAAAGTGTGTGAACACCTCAATCTCTTGGAGAAAGA
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 AGACAACCTGAGAAACCTTCCATGGCTATTCACCTTTAATGTGAAGTTTTATCCTCCTGATCCTTCTCAAT
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 ATCTCCACCAAGGAAGTCCCATTTGTCCAAACTGAGACCAAAACCATCACATATGAGTCTCCACAGATTG
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 GTGATCACAGGAGATGGAGATTTGATCATGACCAGGCACTGGCTCAGGCGATCAGGAAGCCAGAGAGC
 AGCACCTGACATGTCCGTACAAGAGTGGTGGTACACAAAGAAACAGAGTTGGCTGAGGAAGGGGAAGA
 T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234819 representing NM_001252660
 Red=Cloning site Green=Tags(s)

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MTTEVGSVSEVKKDSSQLGTDATKEPKPEVAENQQNQSSDPEEEKGSQPPPAESQSSLRQKREKETSE
SRGISRFIPPWLKKQSYTLVVAKDGGDKKEPTQAVVEEQVLDKEEPLPEEQRAKGDAAEMAQKKQEIK
VEVKEEKPSVSKEEKPSVSKVEMQPTELVSKEREKVKETQEDKLEGGAAKRETKEVQTNELKAEKASQK
VTKKTKTVQCKVTLDDGTEYSCDLEKHAKGOVLFDKVCEHLNLLLEKDYFGLLFQESPEQKNWLDPAKEIK
RQLRNLPLWLFNFVYPPDPSQLTEDI TRYFLCLQLRQDIASGRLPCSFVTHALLGSYTLQAE LGDYDP
EEHGSIDLSEFQFAPTQTKELEEKVAELHKTHRGLSPAQADSQFLENAKRLSMYGVDLHHAKDSEGVDIK
LGVCANGLLIYKDRLRINRFAWPKILKISYKRSNFYIKVRPAELEQFESTIGFKLPNHRAAKRLWKVCVE
HHTFYRLVSPQPPKAKFLTGSKFRYSGRTQAQTRQASTLIDRPAPHFERTSSKRVSRSLDGAPIGVMD
QSLMKDFPGAAGEISAYGPLVSI AVVQDGDGRREVRSP TKAPHLQLIEGKPPVVKTEMVTISDASQRT
ISTKEVPVQTETKTITYESPI DGGAGGDSG TLLTAQTITSESVSTTTTTHITKTVKGGISETRIEKRI
VITGDGDIDHDQALAQAI REAREQHPDMSVTRVVHKETELAE EGED
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

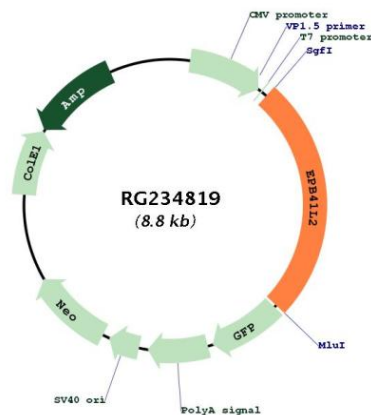
UniProt ID: [O43491](#)

Cytogenetics: 6q23.1-q23.2

Protein Pathways: Tight junction

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 RG234819