

Product datasheet for **RG227898**

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:	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:

>RG227898 representing NM_001135554
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTACTGAAGTAGGCTCTGTGTCTGAAGTGAAGAAGGACTCTAGCCAGTTAGGAACAGATGCAACCA
 AGGAAAAACCTAAAGAAGTAGCAGAAAAATCAGCAGAATCAGTCTTCCGATCCAGAGGAGGAAAAAGGTTCC
 CCAGCCACCTCCTGCAGCTGAAAGCCAAAGTAGTCTACGCCGCCAGAAGAGAGAGAAGGAAACATCGGAG
 AGCAGGGGTATTTCTCGTTTCATACCGCCATGGCTTAAGAAGCAAAAGTCATATACCTTAGTAGTGGCCA
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 CTGCTCTTTGTGACTCATGCTCTCCTGGGATCCTACACCCTGCAGGCTGAACCTGGTGAATGACCCA
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 AATTTTCGCTATAGTGGCCGACCCAAGCACAGACCCGCCAGGCCAGCACCCCTCATAGATAGGCCAGCACC
 ACACCTTGAGCGCACTTCTAGTAAACGGGTCTCCAGGAGTCTAGATGGAGCTCCGATTGGTGTGATGGAC
 CAAAGTCTTATGAAGATTTTCTGGCGTGTGTTGGGAGATTTGAGCCTATGGACCTGGACTTGTGAGCA
 TTGCCGTGTTACAAGATGGGGACGGCAGGAGGGAAGTGAAGCCCAACTAAAGCCCACATTTGCAGCT
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 GATGGAGATATTGATCATGACCAGGCACTGGCTCAGGCGATCAGGGAAGCCAGAGAGCAGCACCCCTGACA
 TGTCGGTCAACAAGAGTGGTGGTACACAAAGAAACAGAGTTGGCTGAGGAAGGGGAAGT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227898 representing NM_001135554
Red=Cloning site Green=Tags(s)

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MTTEVGSVSEVKKDSSQLGTDATKEPKPEVAENQQNQSSDPEEEKGSQPPPAESQSSLRQKREKETSE
SRGISRFIPPWLKKQSYTLVVAKDGGDKKEPTQAVVEEQVLDKEEPLPEEQRAKGADEEMAQKKQEI
VEVKEEKPSVSKEEKPSVSKVEMQPTLVSKEREKVKETQEDKLEGGAAKRETKEVQTNELKAEKASQ
VTKKTKTVQCKVTLDDGTEYSCDLEKHAKGOVLFDKVCEHLNLLLEKDYFGLLFQESPEQKNWLDPAKEIK
RQLRNLPWLFTFNVKFYPPDPSQLTEDITRYFLCLQLRQDIASGRLPSCFVTHALLGSYTLQAEKLDYDP
EEHGSIDLSEFQFAPTQTKLEEKVAELHKTGRGLSPAQADSQFLENAKRLSMYGVLDLHHAADSEGVDIK
LGVCANGLLIYKDRLRINRFAWPKILKISYKRSNFYIKVPAELEQFESTIGFKLPNHRAAKRLWKVCVE
HHTFYRLVSPEQPPKAKFLTGSKFRYSGRTQAQTRQASTLIDRPAPHFERTSSKRVSRSLDGAPIGVMD
QSLMKDFPGAAGEISAYGPGLVSIQVQDGDGRREVRSPKAPHLQLIEGKTVKGGISETRIEKRIVITG
DGDIDHDQALAQAIAREAREQHPDMSVTRVVVHKETELAEED
    
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TRTRPLE - GFP Tag - V

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 Size: 3473 bp

RefSeq ORF: 2022 bp

Locus ID: 2037

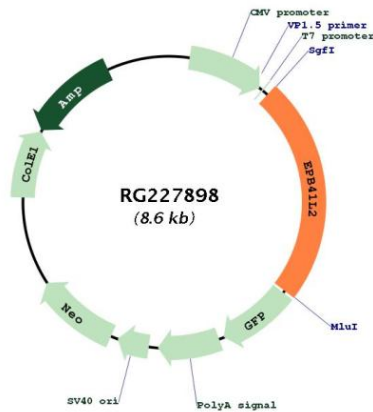
UniProt ID: [O43491](#)

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 RG227898