

## Product datasheet for **RC239708**

### EPB41L3 (NM\_001281534) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41L3 (NM_001281534) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EPB41L3
Synonyms:	4.1B; DAL-1; DAL1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide  
Sequence:**

>RC239708 representing NM\_001281534  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACGACCGAATCTGGATCAGACTCGGAATCCAAGCCGACCAGGAGGCCGAGCCCCAGGAGGCCGCGG  
 GGGCGCAGGGGCGCGCGGGGCGCCCGTCCCGGAGCCGCCAAGGAGGAGCAGCAGCAGGCCCTGGAGCA  
 GTTCGCCCGCGCTGCAGCGCACAGCACCCCGGTGCGGAGGGAGGTCACCTGACAAGGAACAGGAGTTTGCT  
 GCCAGGGCTGCAAAAACAGCTCGAATATCAGCAATTAGAAGACGATAAACTTTCTCAGAAATCATCTAGCA  
 GTAAACTCTCTCGGTCTCCATTAAGATTGTCAAAAAGCCTAAAAGCATGCAGTGCAAAAGTATACTTCT  
 CGATGGATCAGAATATACCTGTGATGTAGAGAAACGCTCCAGAGGACAAGTGTGTTTGATAAAAGTGTGT  
 GAACACTTGAACCTGCTAGAGAAAGACTACTTTGGGCTTACGTATCGAGATGCTGAAAACGAGAAGATT  
 GGTGGACCTGCTAAGGAAATAAAAAACAGGTTCAAGTGGTCTTGGCACTTTTCATTTAATGTGAA  
 ATTTTATCCACCAGACCTGCCCAACTATCTGAAGATATCACCAGTACTACCTCTGCTTGCAGTTGCCA  
 GATGACATCGTGTCCGGAAGGCTGCCCTGCTCCTTTGTTACCCTGGCCTTGTGGCTCCTACACTGTCC  
 AGTCAGAGCTCGGAGACTATGACCCAGATGAATGTGGGAGCGATTACATTAGTGAGTTCCGCTTGCACC  
 AAACCACACTAAAGAAGTGAAGACAAAGTATCGAGCTGCACAAGGCCACAGAGGAATGACGCCAGCA  
 GAAGCAGAGATGCATTTCTTGGAAAAATGCCAAAAAATTCAATGTATGGGGTAGATTTACATCATGCTA  
 AGGACTCAGAAGGGGTAGAAATTATGTTAGGAGTTTGTGCAAGTGGTCTGTTGATATATCGCGACCCGGT  
 GCGAATAAACAGATTTGCCTGGCCCAAGGTTCTAAAGATTTATACAAACGGAACAACCTTTACATTAAG  
 ATCCGCGGGGAGAGTTGAACAATTTGAAAGCACCATTGGGTTAAGCTGCCAAACCATCGAGCTGCCA  
 AGCGTTTATGAAAGTATGTGTTGAGCATCATACATTTTTTCAGACTACTGTTACCAGAAGCACCTCCCAA  
 GAAATTCCTAACCTTGGGTTCCAAGTTTCGTTATAGTGGCAGGACACAAGCGCAAACGAGAAGAGCCAGT  
 GCGTTGATAGATCGCCAGCACCTTACTTTGAACGCTCATCCAGCAAACGTTATACCATGTCTCGCAGCT  
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 AAGGCTGAGGAGGAGCGGGACGAGGAAGAGGACAAACGGAGGAAGGGGGAAGAAGTACGCCCATCTCGG  
 CCATCCGGCAGGAGGAAAGACTGACAGTGAGCGCACGGACCCGAGCCGAGCGGGGAGACCCTGCCAC  
 TGAGGAGCTAGAAAAACTCAAGATGACCTGATGAAACATCAAACCAACATTAGCGAGCTGAAAAGAACC  
 TTCTTAGAAACCTCAACAGACACTGCCGTAACGAATGAATGGGAGAAGAGGCTTTCCACCTCCCCGTGC  
 GACTGGCCGCCAGGCAGGAGGATGCCCCATGATCGAACCCTTGTCCCTGAAGAGAAAAATGGAAACCAA  
 GACGGAGTCCAGTGAATAGAGACGGAACCCACCGTGCACCACCTGCCGCTTAGCACTGAGAAGGTGGTG  
 CAGGAGACCGTGTGGTGGAGGAGCGGCGTGTGGTGCACGCGAGTGGGGATGCTTCTTACTCGGCGGGAG  
 ACAGCGGGGATGCTGCAGCACAGCCCGCATTACAGGCATTAAAGGGAAAGAGGGCTCTGCCTTGACGGA  
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 TCCCGTGAGCGACAAGAGGAGCAGAGTGCAGCCATCCACATTTTCAGAACTTTGGAACAAAAACCTCATT  
 TTGAGTCTCAACGGTGAAGACGGAAACCATCAGTTTTGGCAGTGTTCACCGGGAGGAGTAAAGCTAGA  
 AATTTCCACGAAGGAAGTGCCAGTAGTTCACACCGAAACCAAAACCATCACATATGAATCATCACAGGTC  
 GATCCAGGCACAGATCTGGAGCCAGGCGTGTGATGAGTGCACAGACGATCACATCTGAAACCCACAGTA  
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 CAGCACCTGACATGTCAGTGACCAAAGTGTGGTCCATAAAGAGACAGAGATCACACCAGAAGTGGAG  
 AGGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239708 representing NM\_001281534  
 Red=Cloning site Green=Tags(s)

MTTESGSDSESKPDQEAEPQEAAGAQRAGAPVPEPPKEEQQQALEQFAAAAAHSTPVRREVDKEQEF  
 ARAAKQLEYQQLEDDKL SQKSSSSKL SRSPLKIVKKPKSMQCKVILLDGSEYTCDEKRSRGQVLF  
 EHLNLLKDYFGLTYRDAENQKNWLDPAKEIKKQVRSQAWHFSFNVKFYPPDPAQLSEDI TRYYLCLQLR  
 DDIVSGRLPCSFVTLALLGSYTVQSELGDYDPDECGSDYISEFRFAPNHTKELEDKVIELHKSHRGMTPA  
 EAEMHFLENAKKLSMYGVDLHAKDSEGVEIMLGVCASGLLIYRDRLRINRF AWPVKLKI SYKRNNFYIK  
 IRPGFEQFESTIGFKLPNHRAAKRLWKVCVEHHTFFRLLLPEAPPKFLTLGSKFRYSGR TQAQTRRAS  
 ALIDRPAPYFERSSSKRYTMSRSLDGASV NENHEIYMKDSMSAAEVGTGQYATTKGISQTNLITTVTPEK  
 KAEERDEEEDKRRKGEEVTPISAIRHEGKTDSERTDAADGETTATEELEKTQDDL MKHQ T NISELKRT  
 FLETSTDTAVTNEWKRLSTSPVRLAARQEDAPMIEPLVPEEKMETKTESSGIETPTVHHLPLSTEKVV  
 QETVLVEERRVHASGDASYSAGDSGDA AQP AFTGIGKKEGSALTEGAKEEGGEEVAKAVLEQEETAAA  
 SRERQEEQSAAIH ISETLEQKPHFESSTVKTETISFGSVSPGGVKLEISTKEVPVHTETKTITITYESSQV  
 DPGTDLEPGVLSAQTITSETTTTTHITKTVKGGISETRIEKRIVITGDADIDHDQALAAQAIKEAKE  
 QHPDMSVTKVVVHKETEITPEDGED

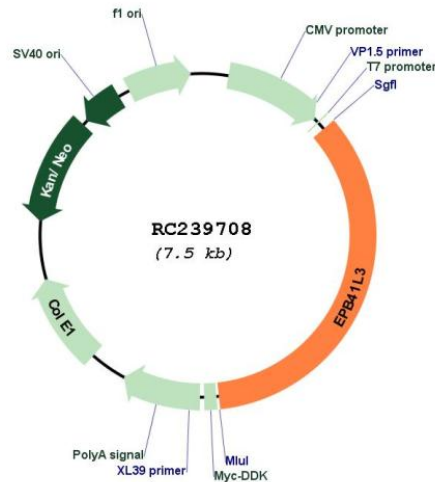
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001281534

**ORF Size:** 2595 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\\_001281534.2](#)

**RefSeq Size:** 4111 bp

**RefSeq ORF:** 2598 bp

**Locus ID:** 23136

**UniProt ID:** [Q9Y2J2](#)

**Cytogenetics:** 18p11.31

**Protein Pathways:** Tight junction

**MW:** 97 kDa

**Gene Summary:** Tumor suppressor that inhibits cell proliferation and promotes apoptosis. Modulates the activity of protein arginine N-methyltransferases, including PRMT3 and PRMT5.  
[UniProtKB/Swiss-Prot Function]