

Product datasheet for RC216777

EPB41L3 (NM_012307) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: EPB41L3 (NM_012307) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: EPB41L3
Synonyms: 4.1B; DAL-1; DAL1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC216777 representing NM_012307
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACGACCGAATCTGGATCAGACTCGGAATCCAAGCCGGACCAGGAGGCCGAGCCCAGGAGGCGGCGG
 GGGCGCAGGGGCGCGGGGGCGCCCGTCCGGAGCCGCCAAGGAGGAGCAGCAGCAGGCCCTGGAGCA
 GTTCGCCCGCGTGCAGCGCACAGCACCCCGTCCGGAGGGAGGTCAGTACAAGAACAGGAGTTTGCT
 GCCAGGGTGC AAAACAGCTCGAATATCAGCAATAGAAGACGATAAACTTTCTCAGAAATCATCTAGCA
 GTA AACTCTCTCGGTCTCCATTAAGATTGTCAAAAAGCCTAAAAGCATGCAGTGC AAAAGTGATACTTCT
 CGATGGATCAGAAATACCTGTGATGTAGAGAAAAGCCTCCAGAGGACAAGTGCTGTTTGATAAAAGTGTT
 GAACACTTGA AACTTGCTAGAGAAAAGACTACTTTGGGCTTACGTATCGAGATGCTGAAAACCAAGA AATT
 GGTTGGACCTGCTAAGGAAATAAAAAACAGGTTCAAGTGGTCTTGGCACTTTTCATTTAATGTGAA
 ATTTTATCCACCAGACCTGCCCAACTATCTGAAGATATCACCAGGTA CTACCTCTGCTTGCAAGTGGCA
 GATGACATCGTGTCCGGAAGGCTGCCCTGCTCCTTTGTTACCTGGCCTTGTCTGGGCTCCTACACTGTCC
 AGTCAGAGCTCGGAGACTATGACCCAGATGAATGTGGGAGCGATTACATTAGTGAGTTCGCTTTGCACC
 AAACCACACTAAAGA AACTGGAAGACAAAAGTGCAGCTGCACAAGAGCCACAGAGGAATGACGCCAGCA
 GAAGCAGAGATGCATTTCTGGAAAATGCCAAAAAATTATCAATGTATGGGGTAGATTTACATCATGCTA
 AGGACTCAGAAGGGTAGAAAATTATGTTAGGAGTTTGTGCAAGTGGTCTGTTGATATATCGGACCGGCT
 GCGAATAAACAGATTTGCTGGCCCAAGGTTCTAAAGATTTTCATACAAAACGGAACA AACTTTTACATTAAG
 ATCCGGCCGGGAGAGTTTGAACAATTTGAAAGCACCATTGGGTTTAAAGTGC AAAACCATCGAGCTGCCA
 AGCGTTTATGGAAAGTATGTGTTGAGCATCATA CATTTCAGACTACTGTTACCAGAAGCACCTCCCAA
 GAAATTCCTAACCTTGGGTTCCAAGTTTCGTTATAGTGGCAGGACACAAGCGCAAACGAGAAGAGCCAGT
 GCGTTGATAGATCGCCAGCACCTTACTTTGAACGCTCATCCAGCAAACGTTATACCATGTCTCGCAGCT
 TGGATGGAGAGTTGGTACTGGCCAGTACGCCACA ACAAAGGCATCTCTCAGACCAACTTGATCACCAC
 TGTGACTCCGGAGAAGAAGGCTGAGGAGAGCGGACGAGGAAGAGGACA AACGGAGGAAGGGGAAGAA



GTCACGCCCATCTCGGCCATCCGGCACGAGGGAAAGTCACCTGGGCTTGGCACTGACTCATGTCCCTTGT
 CACCCCATCCACCCATTGTGCCCCACATCTCCACAGAGCTCCGTAGGAGGTGAAGGAGAATGACTG
 CAAACTGCCAGGTTATGAGCCGTCCAGAGCTGAGCACCTGCCTGGAGAGCCCGCCTTGGACTCTGATGGC
 CCAGGGAGGCCTTACCTAGGGGATCAAGATGTGGCTTTTACTACAGACAGCAAAGTGGCAAGGGGACCA
 CCCTGTCTCCTTCTCCTTGCAGCTCCCTGAGTCAATCCCTCCCTCCTAGATGATGATGGATACCTCTC
 TTTCCCAACCTTTCTGAAACCAACCTCCTGCCAGAGCTTGCAGCATTACCTCCCGATCCGCTACCCG
 TCCCTTGTGCCCTGTTTCTCTTCACTTTTTCTTCTGCTGTCTGCCTCCTTCTAGTCCCATACGCTC
 TCACTCTCTCCTTCCCTCTGGCTCTGTGCTCTGCTACCTGGAGCCCAAGGCGGCCTCCTTGAGCGCTC
 CCTAGACAATGACCCGAGTGACAGTTTCCAGAGGAAGAGACTGACAGTGAGCGCACGGACACCCGAGCCGAC
 GGGGAGACCACCGCCACTGAGTCGGACCAGGAGGAAGTGCAGAGCTCAAGGCACAGGAGCTAGAAAAAA
 CTCAAGATGACCTGATGAAACATCAAACCAACATTAGCGAGCTGAAAAGAACCTTCTTAGAAACCTCAAC
 AGACACTGCCGTAAACGAATGAATGGGAGAAGAGGCTTTCCACCTCCCGGTGCGACTGGCCGCCAGGCAG
 GAGGATGCCCCATGATCGAACCACTTGTCCCTGAAGAGACTAAGCAGTCTTCTGGGGAAAAGCTCATGG
 ATGGCTCTGAAATCTTCACTTTATTAGAGTCTGCGGAAAACCAAGAAATTCATAGGAGGGTTACTTC
 TACTTCTCAAAGCTGGGTTCCAGAAAATGAAAACCAAGACGGAGTCCAGTGAATAGAGACGGAACCCACC
 GTGCACCACCTGCCGCTTAGCACTGAGAAGGTGGTGCAGGAGACCGTGTGGTGGAGGAGCGGCGTGTGG
 TGCACGCGAGTGGGGATGCTTCTTACTCGGCGGGAGACAGCGGGGATGCTGCAGCACAGCCCGCATTAC
 AGGCATTAAGGGGAAAGAGGGCTCTGCCTTACCGGAGGGGGCTAAAGAGGAAGGAGGGGAGGAGTCCGT
 AAAGCTGTCTGGAACAGGAAGAGACAGCCGCTGCTTCCCGTGAAGGAGCAAGAGGAGCAGAGTGCAGCCA
 TCCACATTTCCAGAACTTTGGAACAAAAACCTCATTTTGGAGTCTCAACGGTGAAGAGCGAAACCATCAG
 TTTTGGCAGTGTTCACCGGGAGGAGTAAAGCTAGAAATTTCCACGAAGGAAGTCCAGTGTTCACACC
 GAAACCAAAACCATCACATATGAATCATCACAGGTCGATCCAGGCACAGATCTGGAGCCAGGCGTGTGA
 TGAGTGACAGACGATCACATCTGAAACCAACAGTACCACCACCACTACGCACATCACAAAACCTGTGAA
 AGGGGGCATTTCAGAGACAAGAATTGAGAAGCAATAGTCACTACGCGGGGATGCAGACATTTGACCATGAC
 CAGGCGCTGGCTCAGGCAATTAAGAGGCCAAAGAGCAGCACCCCTGACATGTCACTGACCAAGTAGTGG
 TCCATAAAGAGACAGAGATCACACCAGAAGATGGAGAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216777 representing NM_012307
 Red=Cloning site Green=Tags(s)

MTTESGSDSESKPDQEAEPQEAAGAQRAGAPVPEPPKKEEQQALEQFAAAAAHSTPVRREVTDKEQEFA
 ARAAKQLEYQQLLEDDKLSQSSSSKLSRSPKIVKPKSMQCKVILLDGEYTCDEKRSRGQVLFDKVC
 EHLNLLLEKDYFGLTYRDAENQKNWLDPAKEIKKQVRSGAWHFSFNVKFYPPDPAQLSEDI TRYYLCLQLR
 DDIVSGRLPCSFVTLALLGSYTVQSELGDYDPDECGSDYISEFRFAPNHTKELEDKVIELHKS HRGMTPA
 EAEMHFLENAKKLSMYGVDLHHAKDSEGVEIMLGVCASGLLIYRDRLRINRFAWPVKLISYKRNNFYIK
 IRPGEFEQFESTIGFKLPNHRAAKRLWKVCVEHHTFFRLLLPEAPPKFLTLGSKFRYSRGTAQTRRAS
 ALIDRPAPYFERSSSKRYTMSRSLDGEVGTGQYATTKGISQTNLITTVTPEKKAEEERDEEEDKRRKGEE
 VTPISAIRHEGKSPGLGTDSCPLSPPSTHCAPTSPTELRRRCKENDCKLPGYEPSRAEHLPGEPALDSDG
 PGRPYLGDQDVAFSYRQQTGKGTTLFSFSLQLPESFSLDDDDGYL SFPNLSETNLLPQSLQHLYLPIRSP
 SLVPCFLIFFFLLSASFVPPYALTLFPLALCLCYLEPKAASLSASLDNDPDSSEETDSERTDAAD
 GETTATESDQEEDAELKAQELEKTQDDL MKHQTNISELKRTFLETSTDTAVTNEWKRLSTSPVRLAARQ
 EDAPMIEPLVPEETKQSSGEKLMGSEIFSLLESARKPTEFIGGVTSTSQSWVQKMETKTESSGIEPT
 VHHLPLSTEKVVQETVLVEERRVVHASGDASYSAGDSGDAAAQPAFTGIKKEGSALTEGAKEEGGEEVA
 KAVLEQEETAASRERQEEQSAIHISETLEQKPHFESSTVKTETISFGSVSPGGVKLEISTKEGVPVVHT
 ETKTITYESSQVDPGTDLEPGVLMASQTIITSETTTTTTHITKTVKGGISETRIEKRIVITGDADIDHD
 QALAQAIKEAKEQHPDMSVTKVVVHKETEITPEDGED

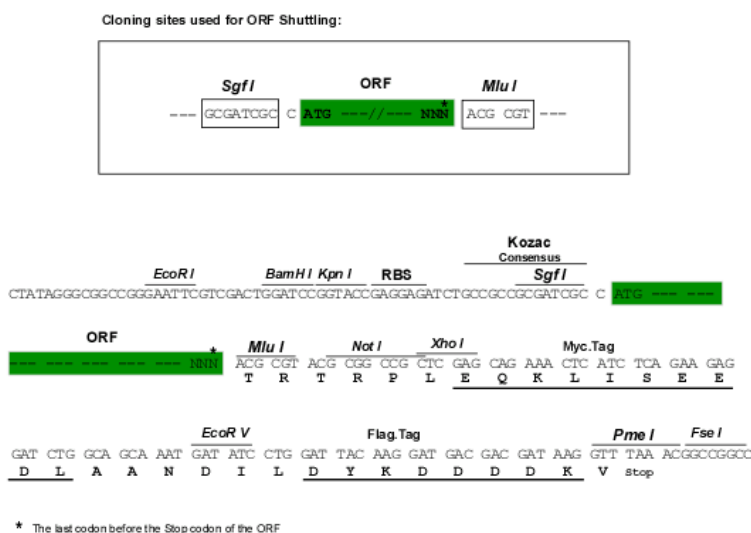
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8018_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012307

ORF Size: 3261 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_012307.2](#), [NP_036439.2](#)

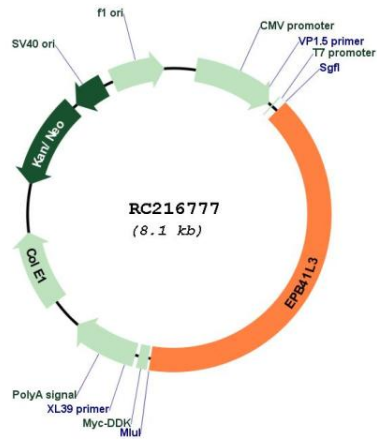
RefSeq Size: 4446 bp

RefSeq ORF: 3264 bp

Locus ID: 23136

UniProt ID: [Q9Y2J2](#)
 Cytogenetics: 18p11.31
 Domains: B41, SAB
 Protein Pathways: Tight junction
 MW: 120.5 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]

Product images:



Circular map for RC216777