

## Product datasheet for **RG216777**

### EPB41L3 (NM\_012307) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41L3 (NM_012307) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EPB41L3
Synonyms:	4.1B; DAL-1; DAL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216777 representing NM_012307 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGACCGAATCTGGATCAGACTCGGAATCCAAGCCGGACCAGGAGGCCGAGCCCCAGGAGGCCGCGG  
GGGCGCAGGGGCGCGGGGGCGCCCGTCCCGGAGCCGCCAAGGAGGAGCAGCAGCAGGCCCTGGAGCA  
GTTCCGCCCGCTGCAGCGCACAGCACCCCGGTGCGGAGGGAGGTCAGTACAAGAACAGGAGTTTGTCT  
GCCAGGGTGC AAAACAGCTCGAATATCAGCAATTAGAAGACGATAAACTTTCTCAGAAATCATCTAGCA  
GTA AACTCTCTCGGTCTCCATTAAGATTGTCAAAAAGCCTAAAAGCATGCAGTGC AAAAGTGATACTTCT  
CGATGGATCAGAATATACCTGTGATGTAGAGAAAACGCTCCAGAGGACAAGTGCTGTTTGATAAAAGTGTT  
GAACACTTGA ACTTGCTAGAGAAAAGACTACTTTGGGCTTACGTATCGAGATGCTGAAAACCAAGA AATT  
GGTTGGACCTGCTAAGGAAATAAAAAACAGGTTCAAGTGGTCTTGGCACTTTTCATTTAATGTGAA  
ATTTTATCCACCAGACCTGCCCAACTATCTGAAGATATCACCAGGTA CTACCTCTGCTTGCAAGTGGCA  
GATGACATCGTGTCCGGAAGGCTGCCCTGCTCCTTTGTTACCTGGCCTTGTCTGGGCTCCTACACTGTCC  
AGTCAGAGCTCGGAGACTATGACCCAGATGAATGTGGGAGCGATTACATTAGTGAGTTCGCTTTGCACC  
AAACCACACTAAAGA ACTGGAAGACAAAAGTGCAGCTGCACAAGAGCCACAGAGGAATGACGCCAGCA  
GAAGCAGAGATGCATTTCTGGAAAATGCCAAAAAATTATCAATGTATGGGGTAGATTTACATCATGCTA  
AGGACTCAGAAGGGGTAGAAATTA GTTAGGAGTTTGTGCAAGTGGTCTGTTGATATATCGGACCGCT  
CGGAATAAACAGATTTGCTGGCCCAAGGTTCTAAAGATTTTACATAACAAACGGAACAACTTTTACATTAAG  
ATCCGGCCGGGAGAGTTTGAACAATTTGAAAGCACCATTGGGTTTAAAGTGC AAAACCATCGAGCTGCCA  
AGCGTTTATGGAAAGTATGTGTTGAGCATCATACTTTTTCAGACTACTGTTACCAGAAGCACCTCCCAA  
GAAATTCCTAACCTTGGGTTCCAAGTTTCGTTATAGTGGCAGGACACAAGCGCAAACGAGAAGAGCCAGT  
GCGTTGATAGATCGCCAGCACCTTACTTTGAACGCTCATCCAGCAAACGTTATACCATGTCTCGCAGCT  
TGGATGGAGAGGTTGGTACTGGCCAGTACGCCACAACAAAAGGCATCTCTCAGACCAACTTGATCACCAC  
TGTGACTCCGGAGAAGAAGGCTGAGGAGGACGGGACGAGGAAGAGGACAACCGAGGAAGGGGGAAGAA



GTCACGCCCATCTCGGCCATCCGGCACGAGGGAAAGTCACCTGGGCTTGGCACTGACTCATGTCCCTTGT  
 CACCCCATCCACCCATTGTGCCCCACATCTCCACAGAGCTCCGTAGGAGGTGTAAGGAGAATGACTG  
 CAAACTGCCAGGTTATGAGCCGTCCAGAGCTGAGCACCTGCCTGGAGAGCCCGCCTTGGACTCTGATGGC  
 CCAGGGAGGCCTTACCTAGGGGATCAAGATGTGGCTTTTACTACAGACAGCAAAGTGGCAAGGGGACCA  
 CCCTGTCTCCTTCTCCTTGCAGCTCCCTGAGTCAATCCCTCCCTCCTAGATGATGATGGATACCTCTC  
 TTTCCCAACCTTTCTGAAACCAACCTCCTGCCAGAGCTTGCAGCATTACCTCCCGATCCGCTACCCG  
 TCCCTTGTGCCCTGTTTCTCTTATCTTTTTCTTCTGCTGTCTGCCTCCTTCTCAGTGGCATTACGCTC  
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 GGGGAGACCACCGCCACTGAGTCGGACCAGGAGGAAGTGCAGAGCTCAAGGCACAGGAGCTAGAAAAAA  
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 AGACACTGCCGTAAACGAATGAATGGGAGAAGAGGCTTTCCACCTCCCGGTGCGACTGGCCGCCAGGCAG  
 GAGGATGCCCCATGATCGAACCACTTGTCCCTGAAGAGACTAAGCAGTCTTCTGGGGAAAAGCTCATGG  
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 TACTTCTCAAAGCTGGGTTGAGAAAATGAAAACCAAGACGGAGTCCAGTGAATAGAGACGGAACCCACC  
 GTGCACCACTGCCGCTTAGCACTGAGAAGGTGGTGCAGGAGACCGTGTGGTGGAGGAGCGGCGTGTGG  
 TGCACGCGAGTGGGGATGCTTCTTACTCGGCGGGAGACAGCGGGGATGCTGCAGCACAGCCCGCATTAC  
 AGGCATTAAGGGGAAAGAGGGCTCTGCCTTACCGGAGGGGGCTAAAGAGGAAGGAGGGGAGGAGTCCGT  
 AAAGCTGTCTGGAACAGGAAGAGACAGCCGCTGCTTCCCGTGAGCGACAAGAGGAGCAGAGTGCAGCCA  
 TCCACATTTGAGAACTTTGGAACAAAAACCTCATTTTGGAGTCTCAACGGTGAAGAGCGAAACCATCAG  
 TTTTGGCAGTGTTCACCGGGAGGAGTAAAGCTAGAAATTTCCACGAAGGAAGTCCAGTGTTCACACC  
 GAAACAAAACCATCACATATGAATCATCACAGGTCGATCCAGGCACAGATCTGGAGCCAGGCGTGTGA  
 TGAGTGACAGACGATCACATCTGAAACCACAGTACCACCACCACTACGCACATCACAAAACCTGTGAA  
 AGGGGGCATTTCAGAGACAAGAATTGAGAAGCAATAGTCATCACGGGGGATGCAGACATTTGACCATGAC  
 CAGGCGCTGGCTCAGGCAATTAAGAGGCCAAAGAGCAGCACCCCTGACATGTCAGTGACCAAAGTAGTGG  
 TCCATAAAGAGACAGAGATCACACCAGAAGATGGAGAGGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG216777 representing NM\_012307  
 Red=Cloning site Green=Tags(s)

MTTESGSDSESKPDQEAEPQEAAGAQRAGAPVPEPPKEEQQALEQFAAAAAHSTPVRREVTDKEQEFA  
 ARAAKQLEYQLEDDKLSQSSSSKLSRSLKIVKPKSMQCKVILLDGSEYTCDEKRSRGQVLFDKVC  
 EHLNLLKDYFGLTYRDAENQKNWLDPAKEIKKQVRSGAWHFSFNKVFYPPDPAQLSEDI TRYYLCLQLR  
 DDIVSGRLPCSFVTLALLGSYTVQSELGDYDPDECGSDYISEFRFAPNHTKELEDKVIELHKS HRGMTPA  
 EAEMHFLENAKKLSMYGVDLHHAKDSEGVEIMLGVCASGLLIYRDRLRINRFAWPVKLISYKRNNFYIK  
 IRPGEFEQFESTIGFKLPNHRAAKRLWKVCVEHHTFFRLLLPEAPPKFLTLGSKFRYSGRQAQTRRAS  
 ALIDRPAPYFERSSSKRYTMSRSLDGEVGTGQYATTKGISQTNLITTVTPEKKAEEERDEEEDKRRKGEE  
 VTPISAIRHEGKSPGLGTDSCPLSPPSTHCAPTSPTELRRRCKENDCKLPGYEPSRAEHLPGEPALDSDG  
 PGRPYLGDQDVAFSYRQQTGKGTTLFSFSLQLPESFSLDDDDGYLSFPNLSETNLLPQSLQHLYLPIRSP  
 SLVPCFLFIFFLLSASFVYPYALTLFPLALCLCYLEPKAASLSASLDNDPDSSEETDSDERTDAAD  
 GETTATESDQEEDAELKAQELEKTQDDL MKHQTNISELKRTFLETSTDTAVTNEWKRLSTSPVRLAARQ  
 EDAPMIEPLVPEETKQSSGEKLDGSEIFSLLESARKPTEFIGGVTSTSQSWVQKMETKTESSGIEPT  
 VHHLPLSTEKVVQETVLVEERRVVHASGDASYSAGDSGDAQAQPAFTGIKKGESALTEGAKEEGGEEVA  
 KAVLEQEETAASRERQEEQSAIHISETLEQKPHFESSTVKETETISFGSVSPGGVKLEISTKEVPVVHT  
 ETKTITYESSQVDPGTDLEPGVLMQAQITSETSTTTTTTHITKTVKGGISETRIEKRIVITGDADIDHD  
 QALAQAIKEAKEQHPDMSVTKVVVHKETEITPEDGED

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_012307.2</a></u> , <u><a href="#">NP_036439.2</a></u>
<b>RefSeq Size:</b>	4446 bp
<b>RefSeq ORF:</b>	3264 bp
<b>Locus ID:</b>	23136
<b>UniProt ID:</b>	<u><a href="#">Q9Y2J2</a></u>
<b>Cytogenetics:</b>	18p11.31
<b>Domains:</b>	B41, SAB
<b>Protein Pathways:</b>	Tight junction
<b>Gene Summary:</b>	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]