

## Product datasheet for **MR220410**

### **Epb41I3 (NM\_013813) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | Epb41I3 (NM_013813) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                    |
| Symbol:                   | Epb41I3                                    |
| Synonyms:                 | 4.1B; Dal1; DAL1P; Epb4.1I3; NBL3          |
| Mammalian Cell Selection: | Neomycin                                   |
| Vector:                   | pCMV6-Entry (PS100001)                     |
| E. coli Selection:        | Kanamycin (25 ug/mL)                       |



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**ORF Nucleotide Sequence:**

>MR220410 representing NM\_013813  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACGACCGAATCAGGATCAGACTCAGAATCGAAGCCAGACCAGGAGGCTGAGCCCCAGGAGGCAGCAG  
 GGCTCAGGGGCAAGCAGGGGCACAGCCTGGACCAGAGCCTGCAGGTGGAACCGCAGCCTCAACGGAGA  
 GAAGCAGCAGCCGGCCCTAGAGCAGTTCCTGAAAGCCGCTGCACACAGCACCCAGTGAAGAGGGAGATC  
 GGTGACAAAGACCGGGACTTTGCTGCTGCAGCTGCGAAACAGCTTGAATATCAGCAGTTTGGAGCAGATA  
 AGCTCTCTCAGAGATCATCCAGCAGAACTCTCACGGTCCCCGCTGAAGATCGTAAAAGGCCTAAAAG  
 CATGCAGTGCAAAGTGACGCTTCTGGATGGGTGAGTACGGCTGCGATGTGGACAAGCGCTCCCGAGGA  
 CAAGTGCTCTTTGACAAAGTGCGAACATCTGAACCTGTAGAAAAGACTACTTTGGCCTCACGTATC  
 GAGACGCAGAGAATCAGAAGAACTGGTTGGACCCTGCTAAGGAAATTAAGAGCAGATTCGGAGCGGTGC  
 TTGGCATTTTTCAATTAATGTGAAGTTTACCCACCAGACCCTGCCAGCTATCAGAAGATACACCAGG  
 TACTACCTCTGCTTGCAGCTGCGAGATGATATTGTGTCTGGACGGCTACCTGTTCTTCGTGACTCTTG  
 CCCTGCTGGGCTCCTACACGGTGCAGTCAAGCTCGGGGACTACGATCCCGATGAATGTGGGAATGACTA  
 CATCAGTGAGTTCGGCTTTGCGCCAAACCACACGAAAGAACTGGAGGATAAAGTGATTGAGCTGCACAAG  
 AGCCACAGAGGAATGACGCCAGCTGAAGCCGAGATGCACTTCCCTCGAAAAAGCAGGCTCCCATGT  
 ACGGGGTGGACTTACACCATGCCAAGGATTCGGAAGGAGTGGAGATTATGTTAGGAGTCTGTGCCAGTGG  
 TCTGTTGATATATCGTGACCGGCTTCAATAAACAGATTTGCTTGGCCGAAGGCTTAAAAATTTCTTAT  
 AAACGGAACAACCTTTACATTAATAACCCGCCAGGAGAGTTTGAACAATTTGAAAGCACCATTGGGTTCA  
 AGTTGCCAAACCATAGGGCTGCCAAGCGCCTCTGGAAGTGTGTGGAGCATCATACATTTTTCAGATT  
 ATTGCTACCAGAAGCACCTCCAAAGAAATTTGACCTTGGGCTCCAAGTTCGGCTACAGTGGCAGAACCC  
 CAGGCGCAAAACAAGAAGGCCAGTGCCTTATAGACCGCCCGGCCCTTACTTTGAACGCTCGTCCAGCA  
 AACGATACACCATGTCTCGCAGCTTGGATGGAGCGTCAGTGAAGTGAACCATGAAATATACATGAAGGA  
 TTCTGTGTCTGCTGCAGAGGTTGGTACAGGCCAGTACGCCACAACAAGGGCATCTCAGACCAACTTG  
 ATCACCCTGTGACTCCAGAGAAAAGGCTGAAGAGGAGCGCTGGAGGAAGAAGACAGAAGGAAGAAGG  
 CTGAGGAAGCCACACCTGTACAGCCCTCCGGCAGGAGGAAAGACTGACAGTGAACGGACAGACTGC  
 AGCTGATGGAGAGACCAGTGCACGGAGTCCGACCAGGAGGAAGATGCAGAGATCAAGGCACAGGATCTA  
 GATAAACTCAAGATGAGCTGATGAAGCACCACCAATATTAGTGAGCTGAAAAGAACCTTCTTAGAAA  
 CCTCTACAGAACTGCCTTAACAACAGAGTGGGAAAAGAGGCTCTCTACATCTCCCGTGGCGCTGGCGGC  
 CAGGCAGGAGGATGCACCATGATTGAGCCGCTGGTACCCGAGGAGACCAACAGTCTTCTGGGGAGAAG  
 CTGATGGATGGCTCGGAGATCCTCAGTCTGTTAGAGTCTGCGCGGAAACCCACAGAGTTCATAGGAGGGG  
 TTTCTGCTACTACCCAGAGCTGGGTGCAGAACTGGAAACAAAGACTGAGCCTGTAGAAGCAGAGGTGGA  
 ATCCACGCCACACCCTCAGCCCCCAGCACGGAGAAGGTGTTGCAGGAAACGATACTGGTAGAGGAGAGG  
 CATGTGATGAGTGTGCACGCCAGCGGGATGCCTCGCACACAGCCAGGGATGAAGTTGATGCTGCAGAAT  
 CCACACCCACAGATCGCCGCCACACTGGGAAAGGAAGGAGGGCTCTTCTGTGACAGAAGCAGCCAAAGGA  
 ACAGAGAGGCGAGGAGGTTGACCAGTCTGCTCCGAGCAGGAACAGCCAGCCACTGTCCCATGAGGGAG  
 GAGCAGGCGTCGACCATCCGCACTTCTGAGGGTTTGAACAATAAATCTCATTTTGTAGTATCCACCGTGA  
 GGGTAGAAAGCAGAGTGTGGGAGTATTTCTCCAGGAGGAGCAAGCTAGAGATCTCTACCAAGGAGGT  
 GCCCGTAGTCCACACGGAAACGAAAACCATCACGTACGAGTCTCTCAGGTCGATCCTGGGGCAGATCTG  
 GAGCCAGGTGTGCTAATGAGTGCCAGACGATCACGTCTGAAACCACTAGTACTACCACCACACACACA  
 TCACCAAACTGTGAAAGGAGGCATTTCCGAGACGAGGATTGAGAAGCGAATAGTCATCACAGGGGACGC  
 TGACATTGACCATGACCAGGCGCTGGCTCAGGCAATTAAGAGGCCAAAGAGCAGCACCCAGACATGTCA  
 GTGACCAAAAGTAGTAGTCCATAAAGAGACAGAAATCACACCAGAGGACGGAGAGGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAAGTTTAA

**Protein Sequence:** >MR220410 representing NM\_013813  
 Red=Cloning site Green=Tags(s)

MTTESGSDSESKPDQEAEPQEAAGPQGQAGAQPPEPAGNGSLNGEKQQPALEQFPEAAHSTPVKREI  
 GDKDRDFAAAAAKQLEYQQFEDDKLSQRSSSSKLSRSPKLVKRPKSMQCKVTLLDGSEYGCDDVKRSRG  
 QVLFDKVCEHLNLLLEKDYFGLTYRDAENQKNWLDPAKEIKKQIRSGAWHFSFNKVFYPPDPAQLSEDIR  
 YYLCLQLRDDIIVSGRLPSSFVTLALLGSYTVQSELGDYDPDECNDYISEFRFAPNHTKELEDKVIELHK  
 SHRGMTPAEAEMHFLENAKKLSMYGVDLHHAADSEGVEIMLGVCASGLLIYRDRLRINRFAPKVLKISY  
 KRNNFYIKIRPGEFEQFESTIGFKLPNHRAAKRLWKVCVEHHTFFRLLLPEAPPKFLTLGSKFRYSGRT  
 QAQTRRASALIDRPAPYFERSSSKRYTMSRSLDGASVSENHEIYMKDSVSAAEVGTGQYATTKGISQTNL  
 ITTVTPEKKAEEERVEEEDRRKKAEEATPVTLRHEGKTDSERTDAADGETSATESDQEEDAIEKAQDL  
 DKTQDELMDKHQTNISELKRTFLETSTETALTNEWEKRLSTSPVRLAARQEDAPMIEPLVPEETKQSSGK  
 LMDGSEILSLLSARKPTEFIGGVSSTQSWVQKLETKTEPVEAEVESTPHQPPLSTEKVLQETILVEER  
 HVMSVHASGDASHTARDEVDAEAESTPTDRRHTGKKEGSSVTEAAKEQRGEEVDQSAPEQEPATVSHEE  
 EQASTIRTSEGLEQKSHFESSTVRVESTSVGSI SPGGAKLEISTKEVPVHTETKTITYESSQVDPGADL  
 EPGVLMSAQTITSETTTTTHITKTVKGGISETRIEKRIVITGDADIDHDQALAQAIKEAKEQHPDMS  
 VTKVVVHKETEITPEDGED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9094\\_d03.zip](https://cdn.origene.com/chromatograms/mm9094_d03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



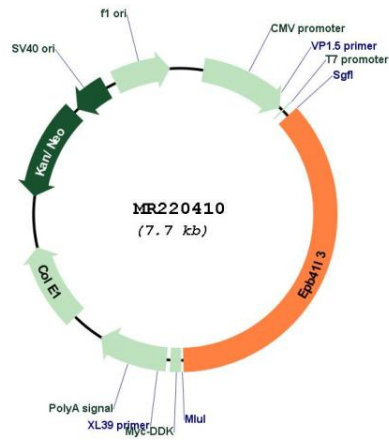
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_013813

**ORF Size:** 2787 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <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>                | <a href="#">NM_013813.2</a>   |
| <b>RefSeq Size:</b>           | 4051 bp   |
| <b>RefSeq ORF:</b>            | 2790 bp   |
| <b>Locus ID:</b>              | 13823   |
| <b>UniProt ID:</b>            | <a href="#">Q9WV92</a>  |
| <b>Cytogenetics:</b>          | 17 40.15 cM   |
| <b>MW:</b>                    | 103.3 kDa   |
| <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 (By similarity). [UniProtKB/Swiss-Prot Function]   |

Product images:



Circular map for MR220410