

Product datasheet for MR231461

Epb41I2 (NM_001199265) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epb41I2 (NM_001199265) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Epb41I2
Synonyms:	4.1G; AW555191; D10ErtD398e; Epb4.1I2; NBL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR231461 representing NM_001199265 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTACTGAAGTTGGCTCTGCATCTGAAGTGAAGAAGGGCTCTGACCAGGCTGGAGCAGATGCCTCCA
AGGAGAAAGCTAAAGAAGTAGAAAATGAGCAGACTCCAGTATCTGAGCCAGAGGAAGAAAAGGGTCCCA
GCCAGGTCTCCGGTTGAGAGGCAAGCACTCCCCGCTGCGGAAACGAGGGAAGGATCCGTCTGAGAAC
AGGGGCATCTCTCGATTCATACCCCGTGGCTTAAGAAGCAGAGGTCTTACAATTTAGTAGTAGCCAAG
ATGGAGGAGATAAAAAAGAGCCTACTCAAGCTGACGTGGAAGACCAGATCTTAGGCAAAGAGGAATCCCT
TCCTGAAGAAGAGAGTCGGGCCAAGGGTGACGCAGAAGAAATGGCTCAGAGGAAGCACCTGGAGGTTGAG
GTGGAGGTCAGGGAAGCAAAACAGCCTTGAAGCAGCGTGGAGACCCAGCCTGCTGAAGAAGTGAGGA
AGGACAAGGAGGAAACGATACAAGACACACAGGAAGAGAAAAGTGGAAAGGAGTGCAGCCAAAAGGGAGAC
AAAGGAAGTACAGACAAGTGAGCTGAAGGCAGAGGTGGCCTCTCAGAAAGCTACCAAGAAGACCAAGACT
GTCCTGGCCAAAGTGACCCTTCTAGATGGCACGGAATACAGCTGTGACCTTGAGAAACGTGCCAAGGGAC
AAGTGTGTTTGACCGAGTGTGCGAGCACCTGAACCTCTGGAGAAGGACTACTTTGGACTTCTATTTCA
GGATCATCCTGAGCAGAAAAACTGGCTAGATCCTGCAAAGGAAATAAAGAGACAGCTGAAAAATCTTCCC
TGGCTGTTCACTTCAATGTGAAATTTATCCTCCAGATCCTTCTCAGCTGACTGAAGATATCACCAGAT
ACTTCTTGTCCTTACGCTAAGGCAGGACATCGCCTCTGGCCGCTGCCCTGCTCCTTTGTGACTCACGC
CCTCTTGGGATCTACACCTTGCAGGCCGAGCATGGGACTATGACCCAGAAGAATATGACAGTATTGAT
CTTGGTGACTTCCAGTTTGCCCCGGCCACACCAAGGAGTTGGAGGAAAAGGTGTCAGAACTGCATAAAA
CTCACAGGGGCTTATCTCCAGCACAAAGCCGACTCTCAGTTCTTAGAGAACGCAAAGAGGCTTTCCATGTA
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ATTGCCAAACCACGGGCAGCTAAACGGCTATGGAAGGTGTGTGGAACATCACACTTTCTACAGGCTT



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GTGTCTCCAGAGCAGCCACCAAAGACCAAGTTCTTGACCCTGGGGTCCAAATTCGCTACAGCGGCCGCA
 CGCAGGCACAGACCAGAGAAGCAAGTACCTCATAGACAGGCCGGCACCACAATTTGAGCGTGCCTCTAG
 TAAACGTGTCTCGAGGAGCCTAGACGGAGCCCGATTGGTGTGTGGACCAAAGCCCTCCTGGAGAGGGC
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 ATCACATCTGAGTCCGCGTCAACAACGACAACACACATCACCAAGACTGTGAAAGGTGGGATCTCTG
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 GGCCATACGGGAAGCGAGAGAGCAGCACCTGATATGTCGGTACAAGGGTGGTAGTGCACAAAGAAACA
 GAGTTGGCGGAGGAAGGAGAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAGGTTTAA

Protein Sequence:

>MR231461 representing NM_001199265
 Red=Cloning site Green=Tags(s)

MTTEVGSASEVKKGSDQAGADASKEKAKEVENEQTPVSEPEEEKGSQPGPPVERQSTPRLRKRKDPSEN
 RGISRFIPPWLKKQRSYNLVAKDGDKKEPTQADVEDQILGKEESLPEEESRAKGDAEEMAQRKHLEVQ
 VEVREAKPALKSSVETQPAEEVRKDKKEETIQDTQEEKLEGGAAKRETKEVQTSSELKAEVASQKATKTKT
 VLAKVTLLDGTEYSCDLEKRAKQVLFDRVCEHLNLEKDYFGLLFQDHPEQKNWLDPAKEIKRQLKNLP
 WLFTFNVKFPYPPDPSQLTEDITRYFLCLQLRQDIASGRLPCSFVTHALLGSYTLQAEHGDYDPEEYDSID
 LGDFQFAPAHTKELEEKVSELHKTHRGLSPAQADSQFLENKRLSMYGVDLHHAKDSEGVDIKLGVCSANG
 LLIYKDRLRINRFAWPKILKISYKRSNFYIKVRPAELEQFESTIGFKLPNHRAAKRLWKVCVEHHTFYRL
 VSPEQPPKTKFLTLGSKFRYSGRTQAQTREASTLIDRPAPQFERASSKRVSRSLDGAPIGVVDQSPPEG
 SVPGPGVISYTTIQDGRDSSKSPKATPLPAEGKNTLRVDGDNIIYVRHSNLMLEDLKAQEAAILKHQAS
 ISELKRNFMASPEPRPSEWEKRRVTPLPFQPQASSHETLNVVEEKKRAEVGKDESVITEEMNGKEMSPG
 HGPGETRKYVEPVAHKDSTLSSESSSSSESEEDVGEYQPHRVTEGTIREEQEECEDEELEEEPPGQAKV
 VEREAAPVDAVPDRQAGASVLPVETEAQEHVVAQKLPGEKGAHGGTAEQDPREEAEDPHRVNVEPHLD
 LDGLPEIICCSEPPVVKTEMVTISDASQRTEISTKEVPIVQETETITYESPQIDGGAGGDSGVLLTAQT
 ITSESASTTTTHTKTKVKGGISETRIEKRIVITGDAALDHDQALAQAIAREAQHPDMSVTRVVVHKET
 ELAEEGEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001199265

ORF Size: 2964 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).

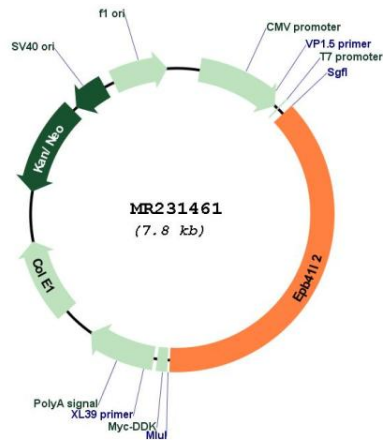
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_001199265.1](#), [NP_001186194.1](#)

RefSeq Size: 4389 bp

RefSeq ORF: 2967 bp
 Locus ID: 13822
 UniProt ID: [O70318](#)
 Cytogenetics: 10 12.26 cM
 MW: 109.9 kDa
 Gene Summary: Required for dynein-dynactin complex and NUMA1 recruitment at the mitotic cell cortex during anaphase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR231461