

Product datasheet for **MG223817**

Epb41I5 (NM_145506) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epb41I5 (NM_145506) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Epb41I5
Synonyms:	1700030C16Rik; AL022914; BE37; E230025E14Rik; Epb4.1I5; Lulu1; NBL5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223817 representing NM_145506
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGAGCTTCTGAGACGAACGCTTGGCCGAGGTCTATGCGCAAGCATGCTGAAAAGGAGCGGCTCC
 GAGAGGCACAGCGTGCAGCCACACACATTCTGCGCTGGGGATGCCAAGTCCATCATCACATGCAGGGT
 GTCCTTCTGGACGGTACAGATGTCAGTGTGGACTTGGCGAAAAAGCCAAAGGACAGGAGCTGTTTGC
 CAAATCATGTATCACCTGGACTTGATTGAAAGTACTATTTTGGTTTGGATTTCATGGATTCAGCCCAAG
 TAGCCATTGGTTGGATGGTACAAAAGCATCAAAAAGCAAGTAAAAATTGGTTCACCCTATTGTCTTCA
 TCTTCGAGTTAAGTTTTATTCTCGAACCAAATAATCTTCGTGAGGAGCTAACCCGGTATTTATTTGTT
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 CTTATAATCTGCAAGCTGAACCTGGCGACTATGATCTTGTGTAACATAGTCTGAACTGGTCTCTGAGTT
 CAGGTTTGTGCCATCCAGACTGAAGAGATGGAACCTGGCTATTTTGGAGAAATGGAAGGAATACAGAGGT
 CAGACACCAGCACAAGCAGAAACCAATTACCTGAATAAAGCCAAATGGCTAGAAATGTATGGTGTGATA
 TGCACGTGGTCAAGGCTAGAGATGGCAATGACTATAGTTGGGACTGACTCCAACAGGAGTCCCTGTTTT
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 GGTATTTCCGACGGACGCTGCAAAATGAAAGCCAGCACAACACAACCTGAAGATCTTGGTGTCTTAATGC
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 AGCAGACTATCTGCCATCTCTCGACCTACCATTGACATTAATGTCAACAGCCAGGAAGAAGTGGTAAA
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 TTCAAGAGTAATATTTTAAAGCTCAAGTAGAAGCTGTGCATAAGGTTACAAGAGAAGATAGTTTATTAA
 CTCATAAAAATGCCAGCGTTCAGGATGCTGCCACAACAGTACTGCATTCAATGAAAATGATGTGCCCGT
 CTGTAAGATTCCCTCACTCCGGTGCATGGCACAGCTGCAGACAGTGCCTCTGTACTAAAGGATGCTACT
 GATGAACTGGACGCCTTACTTCTTCTCTGACAGAGAATCTGATGGACCACAGTAACACCTCAGGTGT
 CTTACCATCCATGATCACACCCGGTGGATTATCCACAGAGTGTACCATCTCCAATGGGCTTGACAGG
 ATATGGAGCATCTTTGGCAGGGACAGATGAATGTAGTCAGAAAAGATGGATTCTCACTGATTTCCCCCCA
 GCACCATCTTGGTAGATGTGTGACCAGCTCTGCCCTCCCTTGCTGAAGACTCAACCTTGAAGCAGA
 AGTGCTTGCTGACTACTGAGCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG223817 representing NM_145506
Red=Cloning site Green=Tags(s)

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MLSFLRRTLGRSSMRKHAERLREAQRAATHIPAAGDAKSIITCRVSLLDGTDVSVLPPKAKGQELFD
QIMYHLDLIESDYFGLRFMDSAQVAHWLDGTKSIKKQVKIGSPYCLHLRVKFSSEPNNLREELTRYLFV
LQLKQDILSGKLECPFDTAVQLAAYNLQAEAGDYDLAEHSPELVSEFRFVPIQTEEMELAI FEKWKEYRG
QTPAQAEITNYLNKAKWLEMYGVDMMHVVKARDGNDYSLGLTPTGVLVFEGETKIGLFFWPKITRLDFKKNK
LTLVVVEDDDQGKEQEHTFVFRLDHPKACKHLWKCAVEHHAFRLRGPVQKSSHRSGFIRLGSFRFRYSGK
TEYQTTKTNKARRSTSFERRPSKRYRRTLQMKASTTQPEDLGLVNASAQKSDSQAWGMSPVPTSSS
SCGAVQVEIENLPQTSATEQHDKRCLPLSVDLLNSPDLETTIGDVRTTSETSAPFPAPDTINVATRSNE
LEEFKAECETLKDDTEKLEKQLETEQITLPSLRPTIDINVNSQEEVVKLTEKLNNAIENPALNAVKPPD
FKSNILKAQVEAVHKVTREDSLLTHKNASVQDAATNSTAFNENDVPVCKDSLTPVHGTAADSASVLKDAT
DELDALLLSLTENLMDHTVTPQVSSPSPMITPRWIIPQSATISNGLAGYGASLAGTDECSQKDGFLISPP
APFLVDAVTSSAPPLPEDSTLKQKCLLTEL
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145506

ORF Size: 2193 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_145506.4](#), [NP_663481.2](#)

RefSeq Size: 6510 bp

RefSeq ORF: 2196 bp

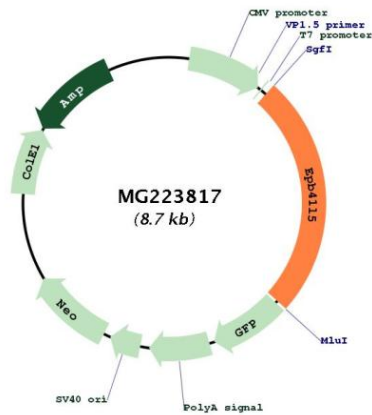
Locus ID: 226352

UniProt ID: [Q8BGS1](#)

Cytogenetics: 1 E2.3

Gene Summary: May contribute to the correct positioning of tight junctions during the establishment of polarity in epithelial cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG223817