

Product datasheet for **RR213533**

Epb41I5 (NM_001012023) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epb41I5 (NM_001012023) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Epb41I5
Synonyms:	Epb4.1I5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR213533 representing NM_001012023
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTAGCTTCTACGAAGAACGCTTGGCCCGCGTCTATGCGCAAGCATGCTGAAAAGGAGCGACTCC
 GAGAGGCGCAGCGTGCTGCCACACACATTCCTGCGGCTGGAGATGCCAAGTCCGTATCACATGCAGGGT
 GTCCTTCTGGATGGTACAGATGTTAGTGTGGACCTGCCGAAAAAGCCAAAGGACAGGACTGTTTGAC
 CAAATTATGTATCACCTGGACTTGATTGAAAGTACTATTTTGGTCTGAGATTCATGGACTCAGCCCAAG
 TAGCACATTGGCTGGATGGTACAAAAAGCATCAAAAAACAAGTAAAAATTGGTTCACCCTATTGTCTTCA
 TCTTCGAGTTAAGTTTTATTCTCGAACCAATAATCTTCGTGAGGAGCTAACCCGGTATTTATTTGTC
 CTTAGCTAAAACAAGATATTCTCAGTGGGAAGTTAGAGTGTCCCTTTGATACAGCAGTTCAATTGGCGG
 CTTACAATCTGCAAGCTGAACCTGGCGACTATGATCTTGTGAACATAGTCTGAACCTGGTCTCTGAGTT
 CAGTTTTGTGCCACCCAGACTGAAGAGATGGAACCTGGCTATTTTGGAGAAATGGAAGGAATACAGAGGT
 CAGACACCAGCACAAGCTGAAACCAATTACCTGAATAAAGCCAAGTGGCTGGAAATGTATGGCGTTGATA
 TGCATGTGGTCAAGGCTAGAGATGGCAATGACTATAGCTTGGGACTGACTCCAACAGGAGTCCCTGTTTT
 TGAAGGAGAGACCAAAATTGGCCTGTTTTCTGGCCAAAATAACAGATTGGATTTTAAAGAAGATAAA
 TTAACCTCTGGTGGTTGTGGAAGATGATGATCAGGGCAAAGAACAAGGCATACCTTCGTCTTTAGATTGG
 ATCATCTAAAGCCTGCAAACTTATGGAAGTGTGCTGTGGAACACCATGCCTTCTCCGACTCCGAGG
 ACCTGTCCAAAAGGGTCTCATCGATCGGGATTCATTGACTAGGATCACGATTTAGATACAGTGGAAAA
 ACAGAGTATCAGACCACAAAACTAATAAAGCAAGAAGATCGACCTCATTGAAAGAAGGCCAGCAAGC
 GATATTCCCGACGGACCCTGCAAGTGAAGCAAGCAGCAAGCCTGACGATCTTGGTTCATAAATGC
 TTCGGCCAGAACAAATGACTCCCAACAGGCTTGGGGTATGAAGTCTCCTGTGCCTGCACTTCTTTCTCA
 TCTCTGGTCCAGTGTGGTGGAGACCGAGAATCTCCACAGAATCTGCAGCGGACCAACATGACAGGA
 AACGGCTCTGTACTACAGTGACCGCTGCCAGCGAGGTGGACACCAGTGGAAACCAAGGGCCTTGCCCC
 ACCCCAGACTGCATATAGAACTACACTGACTTTGTACATGAGCACAATGTGAAGAAATGCAGGAGCCCAT
 CATGATGCTCATTTAGCTGGCCGTGCAGCCATGACTGACATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213533 representing NM_001012023
 Red=Cloning site Green=Tags(s)

MLSFLRRTLGRSMRKHAEKERLREAQRAATHIPAAGDAKSVITCRVSLLDGTDVSDLPKKAKGQELFD
 QIMYHLDLIESDYFGLRFMDSAQVAHWLDGTSIKKQVKIGSPYCLHLRVKFSSEPNNLREELTRYLFV
 LQLKQDILSGKLECPFDTAVQLAAYNLQAE LGDYDLAEHSPELVSEFRFVPTQTEEMELAI FEKWKEYRG
 QTPAQAE TNYLNKAKWLEMYGVMHVVKARDGNDYSLGLTPTGVLVFEGETKIGLFFWPKITRLDFKKNK
 LTLVVVEDDDQGKEQEHTFVFRLDHPKACKHLWKCAVEHHAFFRLRGPVQKGSHRSGFIRLGSFRYSK
 TEYQTTKTNKARRSTSFERRPSKRYSRRTLQVKASTAKPDDLGVHNASAQNDSQAWGMKSPVPVTSFS
 SSGPVLVETENLPQNSAADQHDKRLSATSDRCQRGGHQWNPRLPPPQTAYRNYTDFVHEHNKAGAH
 HDAHLAGRAAMTDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001012023

ORF Size: 1512 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_001012023.1](#), [NP_001012023.1](#)

RefSeq Size: 2231 bp

RefSeq ORF: 1515 bp

Locus ID: 304733

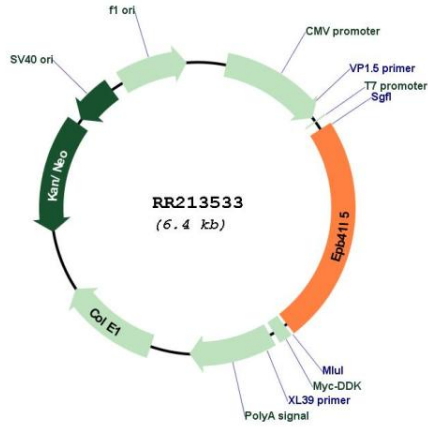
UniProt ID: [Q5FVG2](#)

Cytogenetics: 13q11

MW: 57.6 kDa

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 RR213533