

Product datasheet for **RC229005**

EPB41 (NM_001166006) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41 (NM_001166006) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EPB41
Synonyms:	4.1R; EL1; HE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC229005 representing NM_001166006
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAACAGAGAAGAGTTTAGTGACTGAGGCCGAAAATTCACAGCACCAACAGAAGGAAGAGGGTGAGG
 AAGCCATAAACTCAGGCCAAAGAACCCTCAGCAGGAGGAATCTTGTCAAACAGCAGCTGAAGGAGATAA
 TTGGTGTGAACAGAAGCTGAAAGCTTCTAATGGAGACTCTACACATGAAGACTTGACCAAGAACAAG
 GAGCGGACATCAGAAAGCAGAGGACTTTACGACTATTCTCCTCGTTTCTCAAAGGCCAAATCTCAGG
 TGTCCGAGGAAGAAGGCCAAAGAAGTAGAGTCAGATAAAGAAAAAGGTGAAGGAGGTCAGAAAAGAGATAGA
 ATTTGGAACAGTCTTGATGAAGAGATCATTTTAAAGGCCCAATTGCAGCTCCTGAACCGAACTCAA
 ACAGACCCATCTTTGGATCTTCATTCATTAAGCAGTGCAGAAACACAGCCTGCTCAGGAAGAAGTACAG
 AAGATCCAGATTTTGAATTAAGGAAGGAGAAGGACTTGAAGAGTCTCCAAAATAGAAGTAAAAGAAGA
 AAGCCCTCAATCAAAGCAGAAACAGAATTAAGAGCTTCCAAAAACCAATCAGAAAACACAGGAACATG
 CACTGCAAGGTTTCTTTGTTGGATGACACAGTTTATGAATGTGTTGTGGAGAAAACATGCTAAGGGACAAG
 ATTTGCTTAAACGAGTATGTGAGCATCTCAATCTTTTGAAGAAGACTATTTTGGTCTAGCCATTTGGGA
 TAACGCAACCTCTAAGACATGGCTGGATTCCGCCAAAAGAAATAAAAAAGCAGGTTTCGTGGTGTCCCTTGG
 AATTTTACATTTAATGTAAGTTTTATCCACCTGACCCAGCACAGTTAACAGAAGACATAACAAGATATT
 ATTTATGTCTTCAGCTTCGGCAGGACATAGTTGCAGGACGCTGCCCCTGTTCTTTGCAACCTTAGCATT
 ATTAGGTTCTTACACCATCCAGTCTGAAGTGGGAGACTACGACCCAGAAGTCCATGGCGTGGATTATGTT
 AGTGATTTTAACTGGCCCCGAATCAGACCAAGGAAGTGAAGAGAAGGTCATGGAAGTGCATGGAAGTGCAT
 ACAGGTCATGACTCCAGCTCAGGCTGACTTGGAGTTTCTTGAAGTGCACAAAAGTTGCTATGATGG
 AGTTGATCTTTCATAAAGCAAAGGACTTGAAGGAGTAGATATCATCCTAGGTGTCTGCTCTAGTGGCCTT
 CTGGTTTACAAAGATAAGCTGAGAATTAACCGCTTCCCTTGGCCAAAAGTCTGAAGATTTCTTATAAAC
 GTAGTAGCTTTTTATCAAGATTCGGCCTGGAGAGCAAGAGCAGTATGAAAGTACCATCGGATTCAAACT
 TCCAGTTACCGAGCAGCTAAGAAATTAAGAAAGTCTGTGTAGAACATCACACGTTTTTTCAGATTGACA
 TCTACAGACACCATTCCAAAAGCAAATTTCTTGCCTAGGATCCAAATTTTCGATACAGTGGCCGGACTC
 AAGCTCAGACCAGGCAAGCTAGTGTCTAATTGACAGGCTGCCACACTTCGAGCGTACAGCAAGTAA
 ACGGGCGTCCCGAGCCTCGATGGAGCAGCAGCTGTCGATTCCGGCAGACCGAAGTCTCGGCCACTTCT
 GCACCTGCCATTACTCAGGTCAGGTTGCAGAAGTGGCGTCTAGATGCCTCTGCTAAAAAACAGTGG
 TCCCTAAAGCACAGAAGGAAACAGTGAAGGCTGAAGTGAAGAAAGGAAAGACGAGCCACCTGAGCAAGCTGA
 GCCAGAGCCACAGAAGCATGGAAGGTGAAAAAACCCACATCGAGGTGACAGTACCCACCTCAAATGGT
 GACCAAACACAGAAAAGAGAGAAAAGACTAGATGGTGAAGAAATTTATATCAGACATAGCAATTTAATGT
 TGGAGGATTTAGACAAGAGTCAAGAGGAGATCAAAAAACATCATGCCAGCATCAGTGAGCTGAAAAAGAA
 CTTTATGGAGTCTGTACCAGAACCACGGCCTAGTGAATGGGATAAACGCTTATCCACTCACTCACCCCTC
 CGAACTTTAACATCAATGGGCAATCCCACAGGAGAAGGAGTGAAGTACTTTGTCCACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229005 representing NM_001166006
 Red=Cloning site Green=Tags(s)

MTTEKSLVTEAENSQHQQKEEGEEAINSGQQEPQQEESCQTAAEGDNWCEQKLKASNGDTPHEDLTKNK
 ERTSESRLSRLFSSFLKRPKSQVSEEEGKEVESDKKEGEGGQKEIEFGTSLDEEIIILKAPIAAPEPELK
 TDPSLDLHSLSSAETQPAQEELREDPDFEIKEGEGLEECKSIEVKEESPQSKAETELKASQKPIRKHRNM
 HCKVSLLDLDDTVYECVVEKHAKGQDLLKRVCEHLNLLLEEDYFGLAIWDNATSKTWLDSAKEIKKQVRGVPW
 NFTFNVKFYPPDPAQLTEDITRYYLCLQLRQDIVAGRLPCSFATLALLGSYTIQSELGDYDELHGVDYV
 SDFKLAPNQTKLEEKVMELHKSYSRMTPAQADLEFLENAKKLSMYGVDLHKAKDLEGVDIILGVCSSGL
 LVYKDKLRINRFPWPKVLKISYKRSSFFIKIRPGEQEYESTIGFKLPSYRAAKKLWKCVCVEHHTFFRLT
 STDTIPKSKFLALGSKFRYSGRTQAQTRQASALIDRPAPHFERTASKRASRLDGAADVSDRSPRPTS
 APAITQGQVAEGGVLDAKAKTVVPAQKETVKAEVKKEDEPPEQAEPEPTAEWKVEKTHIEVTVPTNSG
 DQTQKKRERLDGENIYIRHSNLMLEDLKSQEEIKKHHASISELKKNFMESVPEPRPSEWDKRLSTHSPF
 RTLNINGQIPTGEGVSTLST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001166006

ORF Size: 2160 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_001166006.1](#), [NP_001159478.1](#)

RefSeq ORF: 2163 bp

Locus ID: 2035

UniProt ID: [P11171](#)

Cytogenetics: 1p35.3

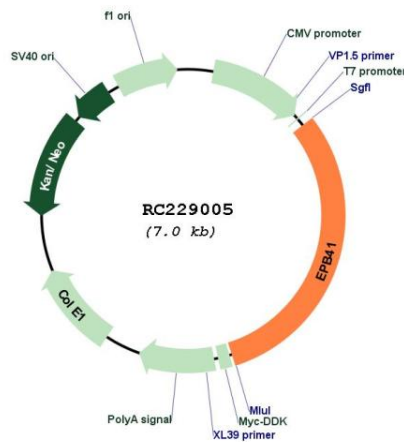
Protein Families: Druggable Genome

Protein Pathways: Tight junction

MW: 81.1 kDa

Gene Summary: The protein encoded by this gene, together with spectrin and actin, constitute the red cell membrane cytoskeletal network. This complex plays a critical role in erythrocyte shape and deformability. Mutations in this gene are associated with type 1 elliptocytosis (EL1). Alternatively spliced transcript variants encoding different isoforms have been described for this gene.[provided by RefSeq, Oct 2009]

Product images:



Circular map for RC229005