

Product datasheet for **RC212040**

EPB41 (NM_004437) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41 (NM_004437) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EPB41
Synonyms:	4.1R; EL1; HE
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC212040 representing NM_004437
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCACTGCAAGTTTCTTTGTTGGATGACACAGTTTATGAATGTGTTGGAGAAACATGCTAAGGGAC
 AAGATTTGCTTAAACAGTATGTGAGCATCTCAATCTTTTGAAGAAGACTATTTTGGTCTAGCCATTTG
 GGATAACGCAACCTCTAAGACATGGCTGGATTCCGCCAAAGAAATAAAAAAGCAGTTCTGGTGTCCCT
 TGGAAATTTACATTTAATGTAAGTTTTATCCACCTGACCCAGCACAGTTAACAGAAGACATAACAAGAT
 ATTATTTATGTCTTCAGCTTCGGCAGGACATAGTTGCAGGACGTCTGCCCTGTTCCCTTGAACCTTAGC
 ATTATTAGTTCTTACACCATCCAGTCTGAACTGGGAGACTACGACCCAGAACTCCATGGCGTGGATTAT
 GTTAGTGATTTAACTGGCCCCGAATCAGACCAAGGAAGTTGAAGAGAAGGTGATGGAAGTGCATAAGT
 CATACAGTCCATGACTCCAGCTCAGGCTGACTTGGAGTTTCTTGAGAATGCCAAAAAGTTGTCTATGTA
 TGGAGTTGATCTTCATAAAGCAAAGGACTTGAAGGAGTAGATATCATCCTAGGTGTCTGCTCTAGTGGC
 CTCTGGTTTACAAAGATAAGCTGAGAATTAACCGCTTCCCTTGGCCAAAGTGCTGAAGATTTCTTATA
 AACGTAGTAGCTTTTTCATCAAGATTCGGCTGGAGAGCAAGAGCAGTATGAAAGTACCATCGGATTCAA
 ACTTCCAGTTACCGAGCAGCTAAGAAATTATGAAAAGTCTGTGTAGAACATCACACGTTTTTTCAGATTG
 ACATCTACAGACACCATCCCAAAGCAAATTTCTTGGCTAGGATCCAAATTTTCGATACAGTGGCCGGA
 CTCAAGCTCAGACCAGGCAAGCTAGTGCTCTAATTGACAGGCCTGCCACACTTCGAGCGTACAGCAAG
 TAAACGGGCGTCCCGAGCCTCGATGGAGCAGCAGCTGTCGATTCGGCAGACCGAAGTCTCGGCCCACT
 TCTGCACCTGCCATTACTCAGGGTCAGGTTGCAGAAGTGGCGTCTAGATGCCTCTGCTAAAAAACAG
 TGGTCCCTAAAGCACAGAAGGAAACAGTGAAGGCTGAAGTGAAAAAGGAAGACGAGCCACCTGAGCAAGC
 TGAGCCAGAGCCACAGAAGCATGGAAGAAAAAGAGAGAAAGACTAGATGGTGAACAACTTATATCAGA
 CATAGCAATTTAATGTTGGAGGATTTAGACAAGAGTCAAGAGGAGATCAAAAAACATCATGCCAGCATCA
 GTGAGCTGAAAAAGAACTTCATGGAGTCTGTACCAGAACCACGGCCTAGTGAATGGGATAAACGCTTATC
 CACTCACTCACCTTCCGAACTCTTAACATCAATGGGCAAATCCACAGGAGAAGGACCTCCCCTGGTG
 AAGACACAACTGTCACCATCTCAGATAATGCCAATGCTGTGAAAAGTGAATCCCAACCAAGACGTCC
 CTATTGCCACTGAGACCAAGACCATCACTTATGAGGCTGCCAGACTGTAAAAGTGGGATTTTCAGA
 GACACGTATTGAAAAGAGAATTGTGATCACAGGAGATGCTGATATTGACCATGATCAGGCTCTGTACAA
 GCCATCAAGGAGCAAAGGAGCAGCACCCAGACATGTGAGTACCAAGGTGGTCTCCACCAGGAGACCG
 AGATTGCTGATGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC212040 representing NM_004437
 Red=Cloning site Green=Tags(s)

MHCKVSLDDTVYECVVEKHAKGQDLLKRVCEHLNLEEDYFGLAIWLNATSKTWLDSAKEIKKQVRGVP
 WNFVTFNVKFPDPAQLTEDI TRYYLCLQLRQDIVAGRLPCSFATLALLGSYTIQSELGDYDPELHGVDY
 VSDFKLAPNQTKLEEKVMELHKSYSMTPAQADLEFLENAKKLSMYGVDLHKAKDLEGVDIILGVCSSG
 LLVYKDKLRINRFPWPKVLKISYKRSSFIFKIRPGEQEYESTIGFKLPSYRAAKLWKVCVEHHTFFRL
 TSTDITPKSKFLALGSKFRYSGRTQAQTRQASALIDRPAPHFERTASKRASRLDGAADVSDRSPRPT
 SAPAITQGQVAEGGVLDSAKKTVVPAQKETVKAQEVKKEDEPPEQAPEPEAWKKRERLDGENIYIR
 HSNLMLDLKDSQEEIKKHHASISELKNFMESVPEPRPSEWDKRLSTHSPFRTLNINGQIPTGEGPPLV
 KTQTVTISDNANAVKSEIPTKDVPVHTETKITITYEAAQTVKGGISETRIEKRIVITGDADIDHDQVLVQ
 AIKEAKEQHPDMSVTKVVVHQETEIADE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

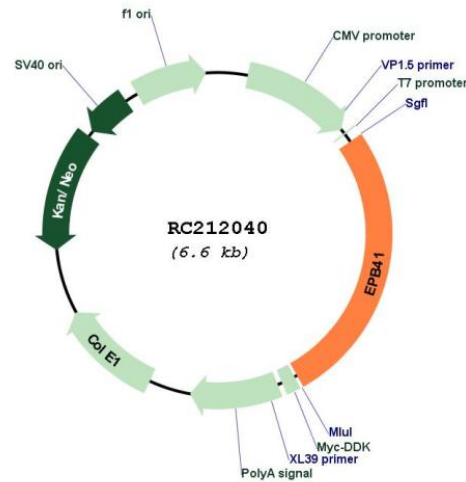
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_004437

ORF Size: 1764 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:	<ol style="list-style-type: none">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_004437.4
RefSeq Size:	5823 bp
RefSeq ORF:	1767 bp
Locus ID:	2035
UniProt ID:	P11171
Cytogenetics:	1p35.3
Domains:	B41, SAB
Protein Families:	Druggable Genome
Protein Pathways:	Tight junction
MW:	66.4 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]