

Product datasheet for **RC228600**

EPB41 (NM_001166005) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41 (NM_001166005) 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:

>RC228600 representing NM_001166005
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGACAACAGAGAAGAGTTTAGTGACTGAGGCCGAAAATTCACAGCACCAACAGAAGGAAGAGGGTGAGG
AAGCCATAAACTCAGGCCAAAGAACCCTCAGCAGGAGGAATCTTGTCAAACAGCAGCTGAAGGAGATAA
TTGGTGTGAACAGAAGCTGAAAGCTTCTAATGGAGACTCTACACATGAAGACTTGACCAAGAACAAG
GAGCGGACATCAGAAAGCAGAGGACTTTACGACTATTCTCCTCGTTTCTCAAAAGGCCAAATCTCAGG
TGTCCGAGGAAGAAGGCCAAAGAAGTAGAGTCAGATAAAGAAAAAGGTGAAGGAGGTCAGAAAAGAGATA
ATTTGGAACAGTCTTGATGAAGAGATCATTTTAAAGGCCCAATTGCAGCTCCTGAACCGAACTCAAA
ACAGACCCATCTTTGGATCTTCATTCATTAAGCAGTGCAGAAACACAGCCTGCTCAGGAAGAACTCAGAG
AAGATCCAGATTTTGAATTAAGGAAGGAGAAGGACTTGAAGAGTGTCCAAAATAGAAGTAAAAGAAGA
AAGCCCTCAATCAAAGCAGAAACAGAATTAAGAGCTTCCAAAAACCAATCAGAAAACACAGGAACATG
CACTGCAAGGTTTCTTTGTTGGATGACACAGTTTATGAATGTGTTGTGGAGAAACATGCTAAGGGACAAG
ATTTGCTTAAACGAGTATGTGAGCATCTCAATCTTTTGAAGAAGACTATTTTGGTCTAGCCATTTGGGA
TAACGCAACCTCTAAGACATGGCTGGATTCCGCCAAAGAAATAAAAAAGCAGGTTCTGGTGTCCCTTGG
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ATTTATGTCTTCAGCTTCGGCAGGACATAGTTGCAGGACGCTGCCCTGTTCTTTGCAACCTTAGCATT
ATTAGGTTCTTACACCATCCAGTCTGAAGTGGGAGACTACGACCCAGAAGTCCATGGCGTGGATTATGTT
AGTGATTTTAACTGGCCCCGAATCAGACCAAGGAAGTGAAGAGAAGGTCATGGAAGTGCATGATGATGG
ACAGGTCATGACTCCAGCTCAGGCTGACTTGGAGTTTCTTGAGAATGCCAAAAGTTGTCTATGATGG
AGTTGATCTTCATAAAGCAAAGGACTTGAAGGAGTAGATATCATCCTAGGTGTCTGCTCTAGTGGCCTT
CTGGTTTACAAAGATAAGCTGAGAATTAACCGCTTCCCTTGGCCCAAAGTGTGAAGATTTCTTATAAAC
GTAGTAGCTTTTTATCAAGATTCGGCCTGGAGAGCAAGAGCAGTATGAAAGTACCATCGGATTCAAACT
TCCAGTTACCGAGCAGCTAAGAAATTATGAAAGTCTGTGTAGAACATCACACGTTTTTTCAGATTGACA
TCTACAGACACCATTCCAAAAGCAAATTTCTGCGCTAGGATCCAAATTTTCGATACAGTGGCCGGACTC
AAGCTCAGACCAGGCAAGCTAGTGTCTAATTGACAGGCTGCCACACTTCGAGCGTACAGCAAGTAA
ACGGGCGTCCCGAGCCTCGATGGAGCAGCAGTGTGATTCCGGCAGACCGAAGTCTCGGCCACTTCT
GCACCTGCCATTACTCAGGTCAGGTTGCAGAAGGTGGCGTCTAGATGCCTCTGTAAAAAACAGTGG
TCCTTAAAGCACAGAAGGAAACAGTGAAGGCTGAAGTGAAGGAAAGACGAGCCACCTGAGCAAGCTGA
GCCAGAGCCACAGAAGCATGGAAGGTGGAAGGAAACCCACATCGAGGTGACAGTACCCACCTCAAAATGGT
GACCAACACAGAAGCTTGCAAGAAAAACTGAAGATCTGATAAGAATGAGGAAGAAAAAGAGAGAAAGAC
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GATCAAAAACATCATGCCAGCATCAGTGAAGTGAAGGAACTCATGGAGTCTGTACCAGAACCACGG
CCTAGTGAATGGGATAAACGCTTATCCACTCACTACCCCTCCGAAGTCTTAACATCAATGGGCAATCC
CCACAGGAGAAGGACCTCCCTGGTGAAGACACAACTGTCAACATCTCAGATAATGCCAATGCTGTGAA
AAGTGAATCCCAACAAAGACGTCCTATTGTCCACACTGAGACCAAGACCACACTTATGAGGCTGCC
CAGACTGACGACAAACAGTGGAGACTTGGACCCAGGAGTCTTGTGACAGCTCAAACATATCACATCTGAGA
CCCAAGCAGCACCACCAACTCAAATACCAAGACTGTAAAAGGTGGGATTTAGAGACACGATTGGA
AAAGAGAATTGTGATCACAGGAGATGCTGATATTGACCATGATCAGGTCCTTGTACAAGCCATCAAGGAG
GCAAAGGAGCAGCACCCAGACATGTCAGTGACCAAGGTGGTCCACCAGGAGACCGAGATTGCTGATG
AG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228600 representing NM_001166005
 Red=Cloning site Green=Tags(s)

MTTEKSLVTEAENSQHQQKEEGEEAINSGQQEPQQEESCQTAAEGDNWCEQKLKASNGDTPTHEDLTKNK
 ERTSESRLSRLFSSFLKRPKSQVSEEEGKEVESDKEKGGQKEIEFGTSLDEEIIKAPIAAPEPELK
 TDPSLDLHSLSSAETQPAQEELREDPDFEIKEGEGLEECISKIEVKEESPQSKAETELKASQKPIRKHRNM
 HCKVSLLDLDDTVYECVVEKHAKGQDLLKRVCEHLNLLLEEDYFGLAIWDNATSKTWLDSAKEIKKQVRGVPW
 NFTFNVKFYPPDPAQLTEDITRYYLCLQLRQDIVAGRLPCSFATLALLGSYTIQSELGDYDPELHGVDYV
 SDFKLAPNQTKLEEKVMELHKSYSRMTPAQADLEFLENAKKLSMYGVDLHKAKDLEGVDIILGVCSSGL
 LVYKDKLRINRFPWPKVLKISYKRSSFFIKIRPGEQEYESTIGFKLPSYRAAKKLWKCVCVEHHTFFRLT
 STDTIPKSKFLALGSKFRYSGRTQAQTRQASALIDRPAPHFERTASKRASRLDGAADVSDRSPRPTS
 APAITQGQVAEGVLDASAKKTVVPAQKETVKAEVKKEDEPPEQAEPEPTAEWKVEKTHIEVTVPTSNG
 DQTQKLAEKTEDLIRMRKKRERLDGENIYIRHSNLMLEDLDSQEEIKKHHASISELKNFMESVPEPR
 PSEWDKRLSTHSPFRTLNINGQIPTGEGPPLVKTQTVTISDNANAVKSEIPTKDVPVHTETKTIITYEAA
 QTDNNSGDLDPGVLLTAQTITSETPSSTTTTQITKTVKGGISETRIEKRIVITGDADIDHDQVLVQAIKE
 AKEQHPDMSVTKVVVHQETEIADE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8038_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

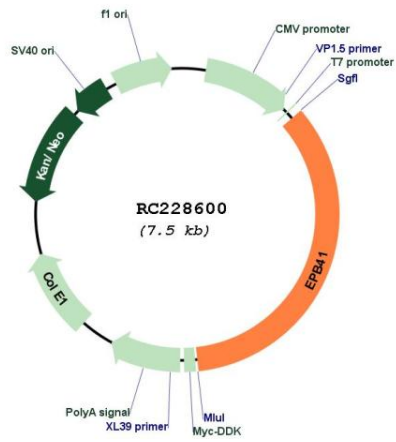
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_001166005
ORF Size:	2592 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_001166005.2
RefSeq ORF:	2595 bp
Locus ID:	2035
UniProt ID:	P11171
Cytogenetics:	1p35.3
Protein Families:	Druggable Genome
Protein Pathways:	Tight junction
MW:	96.8 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 RC228600