

Product datasheet for **RC211584**

EPB42 (NM_000119) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB42 (NM_000119) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EPB42
Synonyms:	PA; SPH5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC211584 representing NM_000119
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGACAGGGTGAGCCAAGCCAGCGCTCGACAGGGCTTGCTGGACTGTATGCAGCCCCGCAGCATCAC
 CTGTTTTTCATTAAAGGAAGTGGATGGATGCCCTGGGTATCAAGAGCTGTGACTTTCAGGCAGCAAGAAA
 CAATGAGGAGCACCAACCAAGGCCCTCAGCTCCCGCGCCTCTTTGTGAGGAGGGGACGCCCTTCACC
 ATCATCTGTACTTCCGCGCTCCAGTCCGTGCATTCTGCCTGCCCTGAAGAAGGTGGCCCTCACTGCAC
 AAAGTGGAGAGCAGCCTTCCAAGATCAACAGGACCCAAGCCACATTCCCAATTTCCAGTCTGGGGACCG
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 GACGCTGTCATTGGCCACTACTCGCTTCTGCTGCAGGTCTCAGGCAGGAAGCAACTCCTCTTGGGTCACT
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 CCCTACCCCTGAGAGGGGATGCCAGATCTCAGTGACGCTGGTTAATCACAGTGAGCAGGAGAAGGCAGT
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 CTGCACCTCACGCTCAGTGCCAACTGGAAAAGATAATAACCATCGGCCTGTTCTTCCAATTTTGAGC
 GAAACCCACCCGAGAACACCTTCTTAGACTCACCGCCATGGCAACACACTCTGAATCCAACCTTAGCTG
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 CATGTGTGCCAAGTTCAGTTCACGCCAACACATGTGGGGCTCCAGAGACTCACTGTGGAAGTGGACTGC
 AACATGTTCCAGAACCTAACCAACTATAAAGCGTCACCGTGGTAGCCCTGAACATATCAGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211584 representing NM_000119
 Red=Cloning site Green=Tags(s)

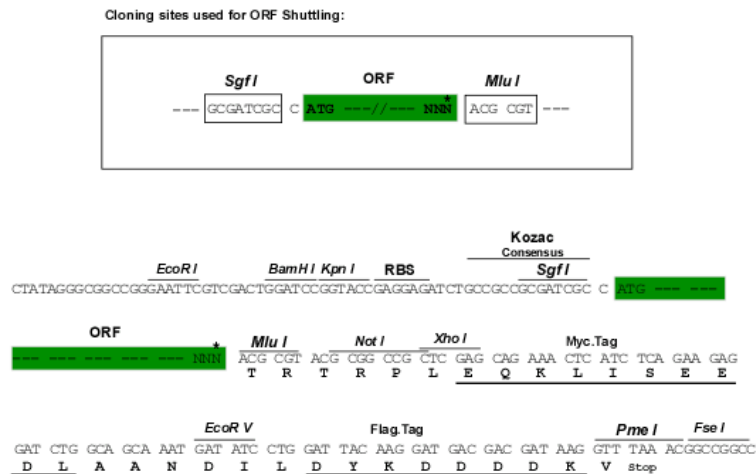
MGQGEPSQRSTGLAGLYAAPASPVFIKGSGMDALGIKSCDFQAARNNEEHHTKALSSRRLFVRRGQPFT
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 DAVIGHYSLLLQVSGRKQLLLGQFTLLFNPWNREDAVFLKNEAQRMEYLLNQNGLIYLTADCIQAESWD
 FGQFEGDVIDLSRLLSKDKQVEKWSQPVHVARVLGALLHFLKEQRLVPTPTQATQEGALLNKRRGSVP
 ILRQWLTGRGRPVYDQAWVLAAVACTVLRCLGIPARVVTTFASAQGTGGRLLLIDEYYNEEGLQNGEGQR
 GRIWIFQTSTECWMTRPALPQGYDGWQILHPSAPNGGGVLGSCDLVPVRAVKEGTLGLTPAVSDFAAIN
 ASCVVWKCCEGTLELTDSTKYVGNISTKGVSRCEDITQNYKPEGSLQEKEVLERVEKEKMEREK
 DNGIRPPSLETASPLYLLLKAPSSLPLRGDAQISVTLVNHSEQEKAVQLAIGVQAVHYNGVLAALKWRKK
 LHLTSLANLEKIITIGLFFSNFERNPPENTFLRLTAMATHSENLSCFAQEDIAICRPHLAIKMPEKAEQ
 YQPLTASVSLQNSLDAPMEDCVISILGRGLIHRERSYFRSVWPENTMCAKFQFTPTHVGLQRLTVEVDC
 NMFQNLNYSKSVTVVAPELSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6818_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_000119

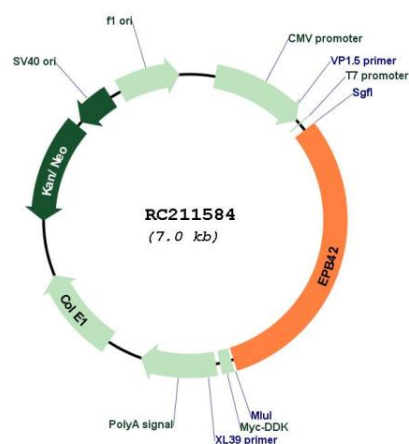
ORF Size: 2163 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_000119.3</u>
RefSeq Size:	2697 bp
RefSeq ORF:	2166 bp
Locus ID:	2038
UniProt ID:	<u>P16452</u>
Cytogenetics:	15q15.2
Domains:	Transglutamin_C, TGc
Protein Families:	Druggable Genome
MW:	79.7 kDa
Gene Summary:	Erythrocyte membrane protein band 4.2 is an ATP-binding protein which may regulate the association of protein 3 with ankyrin. It probably has a role in erythrocyte shape and mechanical property regulation. Mutations in the EPB42 gene are associated with recessive spherocytic elliptocytosis and recessively transmitted hereditary hemolytic anemia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC211584