

Product datasheet for **RG211584**

EPB42 (NM_000119) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB42 (NM_000119) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EPB42
Synonyms:	PA; SPH5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG211584 representing NM_000119
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGACAGGGTGAGCCAAGCCAGCGCTCGACAGGGCTTGCTGGACTGTATGCAGCCCCGCAGCATCAC
 CTGTTTTTCATTAAAGGAAGTGGGATGGATGCCCTGGGTATCAAGAGCTGTGACTTTCAGGCAGCAAGAAA
 CAATGAGGAGCACCAACCAAGGCCCTCAGCTCCCGCGCCTCTTTGTGAGGAGGGGGCAGCCCTTCACC
 ATCATCTGTACTTCCGCGCTCCAGTCCGTGCATTCTGCCTGCCCTGAAGAAGGTGGCCCTCACTGCAC
 AAAGTGGAGAGCAGCCTTCCAAGATCAACAGGACCCAAGCCACATTCCCAATTTCCAGTCTGGGGACCG
 AAAGTGGTGGAGTGCAGTGGTGGAGGAGAGATGCCAGTCTGGACCATCTCTGTGACCACACCTGCG
 GACGCTGTCATTGGCCACTACTCGCTTCTGCTGCAGGTCTCAGGCAGGAAGCAACTCCTCTTGGGTCACT
 TCACACTGCTTTTAAACCCCTGGAATAGAGAGGATGCTGTTTTCTGAAGAATGAGGCTCAGCGCATGGA
 GTACTTGTGAACCAGAATGGTCTCATCTACCTGGGTACAGCTGACTGCATCCAGGCAGAGTCTGGGAC
 TTTGGCCAGTTTCAGGGGGATGTCATTGACCTCAGCCTGCGCTTGCTGAGCAAGGACAAGCAGGTAGAGA
 AGTGGAGCCAGCCGGTGCACGTGGCCCGTGTGTTGGGTGCCTTGCTGCATTTTCTCAAGGAGCAGAGGGT
 CCTGCCACCCCGCAGACCCAGGCCACCCAGGAAGGGGCTTGCTGAACAAGCGCCGGGGCAGCGTGCCC
 ATCCTGCGGCAGTGGCTCACCAGCGGAGGCCGACCTGTGTATGATGGCCAGGCTGGGTGTTGGCTGCTG
 TTGCTTGACAGTGTGCGATGCCTGGGAATCCCTGCCCGCTGGTGACCACGTTTGCTCAGCACAGGG
 CACCGTGGGCGTCTTCTCATAGATGAATACTATAATGAGGAGGGACTTCAGAACGGAGAAGGCCAGAGA
 GGCAGAATCTGGATCTTCCAGACTTCCACAGAGTGTGGATGACGCGCCTGCCTTGCCCGAGGGTTATG
 ATGGATGGCAGATTCTCGACCCAAGTGTCTTAATGGAGGTGGAGTCTGGGGTCTGTGATCTGGTGCC
 GGTGAGAGCAGTCAAGGAGGGGACCGTGGGGCTGACCCAGCAGTGTGAGACCTTTTGGCTGCCATAAAT
 GCCTCATGTGTGCTGGAAGTGTGTGAGGATGGGACACTGGAGTTGACTGACTCCAACACAAAGTATG
 TTGGCAACAACATCAGCACCAAGGGTGTGGGAGTGACCGCTGCGAGGACATCACTCAGAACTACAAGTA
 TCCTGAAGGGTCTTTCAGGAAAAGAGGTGTGGAGAGAGTGAAGAAAGAGAAAATGGAACGTGAGAAA
 GACAACGGCATCCGTCTCCAGTCTCGAGACTGCCAGTCTCTGTACCTGCTCTTGAAAGCACCCAGCT
 CCCTACCCCTGAGAGGGGATGCCAGATCTCAGTGACGCTGGTTAATCACAGTGAGCAGGAGAAGGCAGT
 GCAGCTGGCAATTGGGGTCCAGGCTGTACACTACAACGGTGTCTTGCTGCCAAGCTCTGGAGGAAGAAG
 CTGCACCTCACGCTCAGTGCCAACCTGGAAAAGATAATAACCATCGGCCTGTTCTTCCAATTTTGAGC
 GAAACCCACCCGAGAACACCTTCTTAGACTCACCGCCATGGCAACACACTCTGAATCCAACCTTAGCTG
 CTTTGCTCAGGAAGACATTGCCATTTGTAGACCACACCTTGCCATCAAGATGCCAGAGAAAGCAGAGCAG
 TATCAACCCCTCACAGCCTCAGTCAGCCTCCAGAACTCCCTAGATGCCCCCATGGAGGACTGTGTGATCT
 CCATCCTGGGAAGGGGGCTATTACAGAGAGAGGAGCTACAGATTCCGTTCACTGTGGCCTGAAAACAC
 CATGTGTGCCAAGTTCAGTTCACGCCAACACATGTGGGGCTCCAGAGACTCACTGTGGAAGTGGACTGC
 AACATGTTCCAGAACCTAACCAACTATAAAGCGTCACCGTGGTAGCCCTGAACATATCAGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

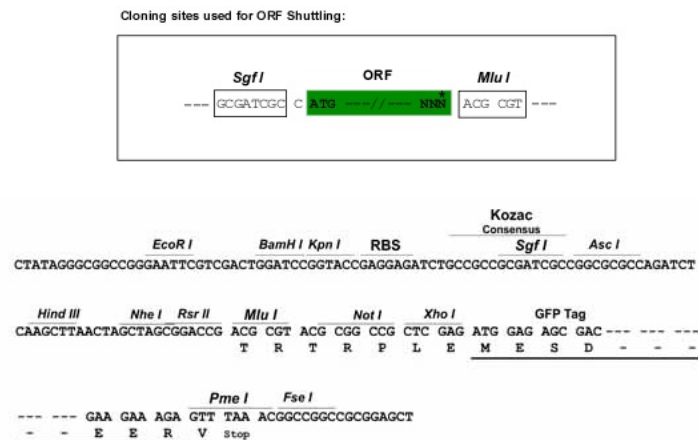
Protein Sequence: >RG211584 representing NM_000119
 Red=Cloning site Green=Tags(s)

MGQGEPSQRSTGLAGLYAAPASPVFIKGSGMDALGIKSCDFQAARNNEEHHTKALSSRRLFVRRGQPFT
 IILYFRAPVRAFLPALKKVALTAQTGEQPSKINRTQATFPISSLGDRKWSAVVEERDAQSWTISVTTPA
 DAVIGHYSLLLQVSGRKQLLLGQFTLLFNPWNREDAVFLKNEAQRMEYLLNQNGLIYLTADCIQAESWD
 FGQFEGDVIDLRLSLKDKQVEKWSQPVHVARVLGALLHFLKEQRLVPTPTQATQEGALLNKRRGSVP
 ILRQWLTGRGRPVYDQAWVLAAVACTVLRCLGIPARVVTTFASAQGTGGRLIDEYYNEEGLQNGEGQR
 GRIWIFQTSTECWMTRPALPQGYDGWQILDPSAPNGGGVLGSCDLVPVRAVKEGTVGLTPAVSDFAAIN
 ASCVWVKCCEDGTLELTDSTNKYVGNNISTKGVS DRCEDITQNYKYPEGSLQEKEVLERVEKEKMEREK
 DNGIRPPSLETASPLYLLLKAPSSLPLRGDAQISVTLVNHSEQEKAVQLAIGVQAVHYNGVLAACLWRKK
 LHLTSLANLEKIITIGLFFSNFERNPPENTFLRLTAMATHSENLSCFAQEDIAICRPHLAIKMPEKAEQ
 YQPLTASVSLQNSLDAPMEDCVISILGRGLIHRERSYFRSVWPENTMCAKFQFTPTHVGLQRLTVEVDC
 NMFQNLNLYKSVTVVAPELSA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000119

ORF Size: 2163 bp

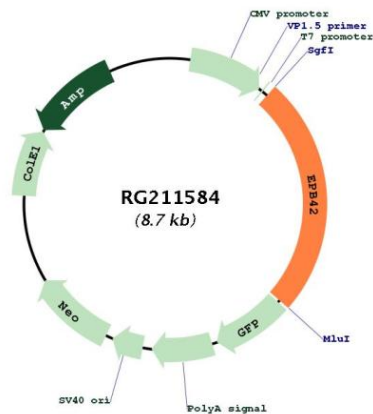
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
RefSeq:	<u>NM_000119.1, NP_000110.1</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
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 RG211584