

Product datasheet for **SC112220**

EPB42 (NM_000119) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB42 (NM_000119) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPB42
Synonyms:	PA; SPH5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_000119, the custom clone sequence may differ by one or more nucleotides

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ATGGGACAGGGTGAGCCAAGCCAGCGCTCGACAGGGCTTGCTGGACTGTATGCAGCCCCGAGCATCAC
CTGTTTTTCATTAAGGAAGTGGGATGGATGCCCTGGGTATCAAGAGCTGTGACTTTCAGGCAGCAAGAAA
CAATGAGGAGCACCAACCAAGGCCCTCAGCTCCCGCGCCTCTTTGTGAGGAGGGGGCAGCCCTTCACC
ATCATCCTGTACTTCCGCGCTCCAGTCCGTGCATTTCTGCCTGCCCTGAAGAAGGTGGCCCTCACTGCAC
AAACTGGAGAGCAGCCTTCCAAGATCAACAGGACCCAAGCCACATTCCCAATTTCCAGTCTGGGGACCG
AAAGTGGTGGAGTGCAGTGGTGGAGGAGAGATGCCAGTCTGGACCATCTCTGTGACCACACCTGCG
GACGCTGTCAATTGGCCACTACTCGTTCTGCTGCAGGTCTCAGGCAGGAAGCAACTCCTCTTGGGTCACT
TCACACTGCTTTTTAACCCTGGAATAGAGAGGATGCTGTGTTCTGAAGAATGAGGCTCAGCGCATGGA
GTACTTGTGAACCAGAATGGTCTCATCTACCTGGGTACAGCTGACTGCATCCAGGCAGAGTCTGGGAC
TTTGGCCAGTTCGAGGGGGATGTCATTGACCTCAGCCTGCGCTTGCTGAGCAAGGACAAGCAGGTAGAGA
AGTGGAGCCAGCCGGTGCACGTGCCCCGTGTGTTGGGTGCCTTGCTGCATTTTCTCAAGGAGCAGAGGGT
CCTGCCACCCCCGAGACCCAGGCCACCCAGGAAGGGGCCCTTGCTGAACAAGCGCCGGGGCAGCGTGCCC
ATCCTGCGGCAGTGGCTACCCGGCCGAGGCCGACCTGTGTATGATGGCCAGGCCCTGGGTGTTGGCTGCTG
TTGCTTGACAGTGTGCGATGCCTGGGAATCCCTGCCCGCTGGTGACCACGTTTGCTCAGCACAGGG
CACCGGTGGGCGTCTTCTCATAGATGAATACTATAATGAGGAGGGACTTCAGAACGGAGAAGGCCAGAGA
GGCAGAATCTGGATCTTCCAGACTTCCACAGAGTGTGGATGACGCGCCTGCCTTGCCCCAGGGTTATG
ATGGATGGCAGATTCTGCACCAAGTGCTCCTAATGGAGGTGGAGTCTGGGGTCTGTGATCTGGTGCC
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GCCTCATGTGTGGTCTGGAAGTGTGTGAGGATGGGACACTGGAGTTGACTGACTCCAACACAAAGTATG
TTGGCAACAACATCAGCACCAAGGGTGTGGGCAGTGACCGCTGCGAGGACATCACTCAGAACTACAAGTA
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GACAACGGCATCCGTCTCCAGTCTCGAGACTGCCAGTCTCTGTACCTGCTCTTGAAAGCACCCAGCT
CCCTACCCCTGAGAGGGGATGCCAGATCTCAGTGACGCTGGTTAATCACAGTGAGCAGGAGAAGGCAGT
GCAGCTGGCAATTGGGGTCCAGGCTGTACACTACAACGGTGTCTTGCTGCCAAGCTCTGGAGGAAGAAG
CTGCACCTCACGCTCAGTGCCAACCTGGAAAAGATAATAACCATCGGCCTGTTCTTCTCAATTTGAGC
GAAACCCACCCGAGAACACCTTCTTAGACTACCGCCATGGCAACACACTCTGAATCCAACCTTAGCTG
CTTTGCTCAGGAAGACATTGCCATTTGTAGACCACACCTTGCCATCAAGATGCCAGAGAAAGCAGAGCAG
TATCAACCCCTCACAGCCTCAGTCAGCCTCCAGAACTCCCTAGATGCCCCATGGAGGACTGTGTGATCT
CCATCCTGGGAAGGGGGCTCATTACAGAGAGAGGAGCTACAGATTCCGTTCAGTGTGGCCTGAAAAACAC
CATGTGTGCCAAGTTCAGTTTACGCAACACATGTGGGGCTCCAGAGACTCACTGTGGAAGTGGACTGC
AACATGTTCCAGAACCTAACCAACTATAAAAGCGTCACCGTGGTAGCCCCGAACTATCAGCTTAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000119 unedited
 TTCGCACGANAAGAAACATGTCAGGGTGCTCACAGGAGTAGTGGGGGAGGTTTTGCTAT
 TTCCAGATTCTTAAGCCAACAAAAGTGCCTTCATATTTTCTGTCTGGAAGACAGAAAGCC
 CAGAAGGAGCCCAGAAGCAACAGTTTGAGAGAGGCGCTTTCTGCGGCCAAGTGGATAAGA
 GGAGCGGCCTGCAACCATGGGACAGGGTGAGCCAAGCCAGCGCTCGACAGGGCTTGCTGG
 ACTGTATGCAGCCCCCGCAGCATCACCTGTTTTTATTAAAGGAAGTGGGATGGATGCCCT
 GGGTATCAAGAGCTGTGACTTTTCAGGCAGCAAGAAACAATGAGGAGCACCACACCAAGGC
 CCTCAGCTCCCGCGCCTCTTTGTGAGGAGGGGGCAGCCCTTCACCATCATCCTGTACTT
 CCGCGCTCCAGTCCGTGCATTTCTGCCTGCCCTGAAGAAGGTGGCCCTCACTGCACAAAC
 TGGAGAGCAGCCTTCCCAGATCAACAGGACCCAAGCCACATTCCCAATTTCCAGTCTGGG
 GGACCGAAAGTGGTGGAGTGCANTGGTGGAGGAGAGAGATGCCAGTCTGGACCATCTC
 TGTGACCACACCTGCGGACGCTGTCAATTGGCCACTACTCGCTTCTGCTGCANGTCTCANG
 CANGAAGCAACTTCTCTGGGTCAAGTTCACACTGCTTTTTAACCCCTGGATAGAGAGGAT
 GCTGTGTTCTGAAGAATGAGGCTCAGCGCATGGAGTACTTGTGAACAGAATGGTCTCA
 TCTACCTGGNTACAGCTGACTGCACCAAGCANAGTCTGGGACTTTGCCAGTTCAGGGGAT
 GTCATGGACTCAACCTGCCTTGTCTGAGCAGAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000119 unedited
 CCAAACGGAGCCCAACCCCCCTTTNTNNNNNNNNCTTTGACTTTGNNACGCGGNCCG
 CATNCTAGGATCGAGTTTTTTTTTTTTTTTGTCTCTTCTACACTGTTTGGTTTAAATT
 GTAGAACAAGGGTTGGCAGGAGAGTGGTGATAGAGCTGGAAGTTAAGCTGATAGTTCAG
 GGGCTACCACGGTGACGCTTTTATAGTTGGTTAGGTTCTGGAACATGTTGCAGTCCACTT
 CCACAGTGAGTCTCTGGAGCCCCACATGTGTTGGCGTGAAGTGAAGTGGCACACATGG
 TGTTTTAGGCCACACTGAACGGAATCTGTAGCTCCTCTCTGTGAATGAGCCCCCTTC
 CCAGGATGGAGATCACACAGTCTCCATGGGGGCATCTAGGGAGTTCTGGAGGCTGACTG
 AGGCTGTGAGGGGTTGATACTGCTCTGCTTTCTCTGGCATCTTGATGGCAAGGTGTGGTC
 TACAAATGGCAATGTCTTCTGAGCAAAGCAGCTAAGGTTGGATTGAGTGTGTTGCCA
 TGGCGGTGAGTCTAAGGAAGGTGTTCTCGGGTGGGTTTCGCTCAAAATTGGAGAAGAACA
 GGCCGATGGTTATTATCTTTCCAGGTTGGCACTGAGCGTGAGGTGCAGTCTTCTCTCC
 AGAGCTTGGCAGCAAGGACACCGTTGTAGTGTACAGCCTGGACCCCATTTGCCAGCTGCA
 CTGCCTTCTNCTGCTCACTGTGATTAAACAGCGTCACTGAGATCTGGGCATCCCCCTCTCA
 GGTAGGGAGCTGGGTGCTTTTAAGAGCGGTACAGAGGACTGGCAGTCTTCAAAGTGGAG
 GACCGATGCCGTTGCCTTTTACGTTTCTTTTCTTTTGTACTTTTTCAGAACTTTTTT
 TTCTTGAGAAACCTTCAGGATCTGAATTTTGAATGATGCCCTCCAGCGGN

Restriction Sites:

NotI-NotI

ACCN:

NM_000119

Insert Size:

2500 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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] Transcript Variant: This variant (1) encodes the longer isoform (1).