

Product datasheet for **SC327640**

EPB41 (NM_001166006) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41 (NM_001166006) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPB41
Synonyms:	4.1R; EL1; HE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001166006, the custom clone sequence may differ by one or more nucleotides

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ATGACAACAGAGAAGAGTTTAGTGACTGAGGCCGAAAATTCACAGCACCAACAGAAGGAA
GAGGGTGAGGAAGCCATAAACTCAGGCCAACAGAACCTCAGCAGGAGGAATCTTGTCAA
ACAGCAGCTGAAGGAGATAATTGGTGTGAACAGAAGCTGAAAGCTTCTAATGGAGACT
CCTACACATGAAGACTTGACCAAGAACAAGGAGCGGACATCAGAAAGCAGAGGACTTTCA
CGACTATTCTCCTCGTTTCTCAAAGGCCCAAATCTCAGGTGTCCGAGGAAGAAGGCAAA
GAAGTAGAGTCAGATAAAGAAAAAGGTGAAGGAGTCCAGAAAGAGATAGAATTTGGAACC
AGTCTTGATGAAGAGATCATTTTAAAGGCCCAATTGCAGCTCCTGAACCGGAACTCAAA
ACAGACCCATCTTTGGATCTTCATTCAATTAAGCAGTGCAGAAACACAGCCTGCTCAGGAA
GAACTCAGAGAAGATCCAGATTTTGAATTAAGGAAGGAGAAGGACTTGAAGAGTGCTCC
AAAATAGAAGTAAAAGAAGAAAGCCCTCAATCAAAGCAGAAACAGAATAAAAGCTTCC
CAAAAACCAATCAGAAAACACAGGAACATGCACTGCAAGGTTTCTTTGTTGGATGACACA
GTTTATGAATGTGTTGTGGAGAAACATGCTAAGGGACAAGATTTGCTTAAACGAGTATGT
GAGCATCTCAATCTTTTGAAGAAGACTATTTTGGTCTAGCCATTTGGGATAACGCAACC
TCTAAGACATGGCTGGATTCCGCCAAAGAAATAAAAAAGCAGGTTTCGTGGTGTCCCTTGG
AATTTTACATTTAATGTAAGTTTTATCCACCTGACCCAGCACAGTTAACAGAAGACATA
ACAAGATATTATTATGTCTTCAGCTTCGGCAGGACATAGTTGCAGGACGTCTGCCCTGT
TCCTTTGCAACCTTAGCATTATTAGGTTCTTACACCATCCAGTCTGAACTGGGAGACTAC
GACCCAGAACTCCATGGCGTGGATTATGTTAGTGATTTTAAACTGGCCCCGAATCAGACC
AAGGAACTTGAAGAGAAGGTGATGGAAGTGCATAAGTCATACAGGTCCATGACTCCAGCT
CAGGTGACTTGGAGTTTCTTGAGAATGCCAAAAAGTTGTCTATGTATGGAGTTGATCTT
CATAAAGCAAAGGACTTGAAGGAGTAGATATCATCCTAGGTGTCTGCTAGTGGCCTT
CTGGTTTACAAAAGATAAGCTGAGAATTAACCGCTTCCCTTGGCCCAAAGTGCTGAAGATT
TCTTATAAACGTAGTAGCTTTTTTTCATCAAGATTCGGCCTGGAGAGCAAGAGCAGTATGAA
AGTACCATCGGATTCAAACCTTCCAGTTACCGAGCAGCTAAGAAATTATGGAAAGTCTGT
GTAGAACATCACACGTTTTTTCAGATTGACATCTACAGACACCATTCCCAAAGCAAATTT
CTTGCGTAGGATCCAAATTTTCGATACAGTGGCCGGACTCAAGCTCAGACCAGGCAAGCT
AGTGCTCTAATTGACAGGCTGCCCCACACTTCGAGCGTACAGCAAGTAAACGGGCGTCC
CGGAGCCTCGATGGAGCAGCAGTGTGATTTCGGCAGACCGAAGTCTCGGCCACTTCT
GCACCTGCCATTACTCAGGGTCAAGTTGCAGAAGGTGGCGTCTAGATGCCTCTGCTAAA
AAAACAGTGGTCCCTAAAGCACAGAAGGAAACAGTGAAGGCTGAAGTGAAGAAAGGAAAGAC
GAGCCACCTGAGCAAGCTGAGCCAGAGCCACAGAAGCATGGAAGGTGGAAGAAACCCAC
ATCGAGGTGACAGTACCCACCTCAAATGGTGACCAAACACAGAAAAAGAGAGAAAGACTA
GATGGTGAAGAAATTTATATCAGACATAGCAATTAATGTTGGAGGATTTAGACAAGAGT
CAAGAGGAGATCAAAAAACATCATGCCAGCATCAGTGAGCTGAAAAAGAACTTTCATGGAG
TCTGTACCAGAACCACGGCCTAGTGAATGGGATAAACGCTTATCCACTCACTCACCCCTTC
CGAACTCTAACATCAATGGGCAATCCCACAGGAGAAGGAGTGAGTACTTTGTCCACA
    
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Restriction Sites: Please inquire

ACCN: NM_001166006

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_001166006.1</u> , <u>NP_001159478.1</u>
RefSeq Size:	2423 bp
RefSeq ORF:	2163 bp
Locus ID:	2035
UniProt ID:	<u>P11171</u>
Cytogenetics:	1p35.3
Protein Families:	Druggable Genome
Protein Pathways:	Tight junction
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs at the 5' and 3' ends, and is missing an internal, in-frame coding exon compared to variant 1, resulting in a shorter isoform (3) with a distinct C-terminus compared to isoform 1.</p>