

## Product datasheet for **SC314114**

### EPB41 (NM\_004437) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41 (NM_004437) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPB41
Synonyms:	4.1R; EL1; HE
Vector:	<u>pCMV6 series</u>



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<b>Fully Sequenced ORF:</b>	<p>&gt;NCBI ORF sequence for NM_004437, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGCACTGCAAGGTTTCTTTGTTGGATGACACAGTTTATGAATGTGTTGTGGAGAAACAT GCTAAGGGACAAGATTTGCTTAAACGAGTATGTGAGCATCTCAATCTTTTGAAGAAGAC TATTTTGGTCTAGCCATTTGGGATAACGCAACCTCTAAGACATGGCTGGATTCCGCCAAA GAAATAAAAAAGCAGGTTTCGTGGTGTCCCTTGAATTTTACATTTAATGTAAAGTTTTAT CCACCTGACCCAGCACAGTTAACAAGAAGACATAACAAGATATTATTTATGTCTTCAGCTT CGGCAGGACATAGTTGCAGGACGTCTGCCCTGTTCCCTTGAACCTTAGCATTATTAGGT TCTTACACCATCCAGTCTGAACTGGGAGACTACGACCCAGAACTCCATGGCGTGGATTAT GTTAGTGATTTTAACTGGCCCCGAATCAGACCAAGGAACTTGAAGAGAAGGTCATGGAA CTGCATAAGTCATACAGGTCCATGACTCCAGCTCAGGCTGACTTGGAGTTTCTTGAGAAT GCCAAAAAGTTGTCTATGTATGGAGTTGATCTTCATAAAGCAAAGGACTTGAAGGAGTA GATATCATCCTAGGTGTCTGCTCTAGTGGCCTTCTGGTTTACAAAGATAAGCTGAGAATT AACCGCTTCCCTTGGCCAAAGTCTGAAGATTTCTTATAAACGTAGTAGCTTTTTTCATC AAGATTCGGCCTGGAGAGCAAGAGCAGTATGAAAGTACCATCGGATTCAAACTTCCCAGT TACCGAGCAGCTAAGAAATTATGGAAAGTCTGTGTAGAACATCACACGTTTTTCAGATTG ACATCTACAGACACCATTCCCAAAGCAAATTTCTTGGCGTAGGATCCAAATTTTCGATAC AGTGGCCGGACTCAAGCTCAGACCAGGCAAGCTAGTGCTTAATTGACAGGCCTGCCCA CACTTCGAGCGTACAGCAAGTAAACGGGCGTCCCGGAGCCTCGATGGAGCAGCAGCTGTC GATTCGGCAGACCGAAGTCTCGGCCACTTCTGCACCTGCCATTACTCAGGGTCAGGTT GCAGAAGTGGCGTCTAGATGCCTCTGCTAAAAAACAGTGGTCCCTAAAGCACAGAAG GAAACAGTGAAGGCTGAAGTAAAAAGGAAGACGAGCCACCTGAGCAAGCTGAGCCAGAG CCCACAGAAGCATGGAAGAAAAAGAGAGAAAGACTAGATGGTAAAAACATTTATATCAGA CATAGCAATTTAATGTTGGAGGATTTAGACAAGAGTCAAGAGGAGATCAAAAAACATCAT GCCAGCATCAGTGAAGTAAAAAGAACTTCATGGAGTCTGTACCAGAACCACGGCCTAGT GAATGGGATAAACGCTTATCCACTCACTCACCTTCCGAACTCTTAACATCAATGGGCAA ATCCCCACAGGAGAAGGACCTCCCTGGTGAAGACACAACTGTCACCATCTCAGATAAT GCCAATGTGTGAAAAGTGAATCCCAACCAAGACGTCCTATTGTCCCACTGAGACC AAGACCATCACTTATGAGGCTGCCAGACTGTAAAAGTGGGATTTTCAGAGACACGTATT GAAAAGAGAATTGTGATCACAGGAGATGCTGATATTGACCATGATCAGGTCTTTGTACAA GCCATCAAGGAGCAAAGGAGCAGCACCCAGACATGTCAGTGACCAAGGTGGTCTGCCAC CAGGAGACCGAGATTGCTGATGAG </pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_004437
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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:** [NM\\_004437.2](#), [NP\\_004428.1](#)

**RefSeq Size:** 6193 bp

**RefSeq ORF:** 5823 bp

**Locus ID:** 2035

**UniProt ID:** [P11171](#)

**Cytogenetics:** 1p35.3

**Domains:** B41, SAB

**Protein Families:** Druggable Genome

**Protein Pathways:** Tight junction

**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]

Transcript Variant: This variant (6) uses an alternate acceptor splice site at an exon at the 5' end, and is missing several short, internal, in-frame coding exons compared to variant 1. This results in translation start from a downstream AUG and a shorter isoform (6) compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.