

Product datasheet for **SC327235**

EPB41 (NM_001166005) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41 (NM_001166005) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPB41
Synonyms:	4.1R; EL1; HE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



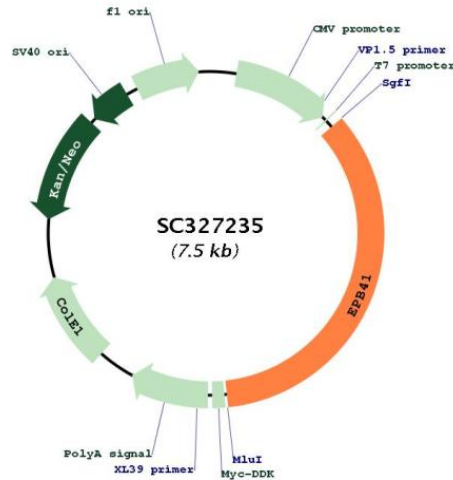
[View online »](#)

Fully Sequenced ORF: >SC327235 representing NM_001166005.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGACAACAGAGAAGAGTTTAGTGACTGAGGCCGAAAAATTCACAGCACCAACAGAAGGAAGAGGGTGAG
GAAGCCATAAACTCAGGCCAACAAAGAACCTCAGCAGGAGGAATCTTGCAACAGCAGCTGAAGGAGAT
AATTGGTGTGAACAGAAGCTGAAAGCTTCTAATGGAGACTCCTACACATGAAGACTTGACCAAGAAC
AAGGAGCGGACATCAGAAAGCAGAGGACTTTCACGACTATTCTCCTCGTTTCTCAAAAAGGCCAAATCT
CAGGTGTCCGAGGAAGAAGGCAAGAAGTAGAGTCAGATAAAGAAAAAGGTGAAGGAGGTGAGAAAGAG
ATAGAATTTGGAACCGTCTTGATGAAGAGATCATTTAAAGGCCCAATTGCAGCTCCTGAACCGGAA
CTCAAAACAGACCCATCTTTGGATCTTCATTCTTAAGCAGTGCAGAAACACAGCCTGCTCAGGAAGAA
CTCAGAGAAGATCCAGATTTTGAATTAAGGAAGGAGAAGGACTGAAGAGTGTCCAAAATAGAAGTA
AAAGAAGAAAGCCCTCAATCAAAAGCAGAAACAGAATTAAGGCTTCCCAAAAACCAATCAGAAAACAC
AGGAACATGCACTGCAAGTTTCTTTGTTGGATGACACAGTTTATGAATGTGTTGTGGAGAAACATGCT
AAGGGACAAGATTTGCTTAAACGAGTATGTGAGCATCTCAATCTTTTGGAAAGACTATTTTGGTCTA
GCCATTTGGGATAACGCAACCTCTAAGACATGGCTGGATTCCGCCAAAAGAAATAAAAAAGCAGGTTCTG
GGTGTCCCTTGGAAATTTACATTTAATGTAAGTTTTATCCACCTGACCCAGCACAGTTAACAGAAGAC
ATAACAAGATATTATTTATGTCTTCAGCTTCGGCAGGACATAGTTGCAGGACGTCTGCCCTGTCTTTT
GCAACCTTAGCATTATTAGGTTCTTACACCATCCAGTCTGAACTGGGAGACTACGACCCAGAAGTCCAT
GGCGTGGATTATGTTAGTGATTTTAACTGGCCCCGAATCAGACCAAGGAAGTGAAGAGAAGGTGATG
GAAGTGCATAAGTCATACAGGTCATGACTCCAGCTCAGGCTGACTTGGAGTTTCTTGAGAATGCCAAA
AAGTTGCTATGTATGGAGTTGATCTTCATAAAGCAAAGGACTTGAAGGAGTAGATATCATCTAGGT
GTCTGCTCTAGTGGCCTTCTGGTTTACAAGATAAGCTGAGAATTAACCGCTTCCCTTGGCCAAAAGTG
CTGAAGATTTCTTATAAACGTAGTAGTTTTTTCATCAAGATTCGGCCTGGAGAGCAAGAGCAGTATGAA
AGTACCATCGGATTCAAACCTTCCAGTTACCGAGCAGCTAAGAAATTATGGAAAGTCTGTGTAGAACAT
CACACGTTTTTTCAGATTGACATCTACAGACACCATTTCCAAAAGCAAATTTCTTGCCTAGGATCCAAA
TTTCGATACAGTGGCCGGACTCAAGCTCAGACCAGGCAAGCTAGTGCTCTAATTGACAGGCTGCCCA
CACTTCGAGCGTACAGCAAGTAAACGGGCTCCCGGAGCCTCGATGGAGCAGCAGCTGTCGATTCCGCA
GACCGAAGTCTCGGCCACTTCTGCACCTGCCATTACTCAGGGTCAGGTTGCAGAAGGTGGCGTCTTA
GATGCCTCTGCTAAAAAACAGTGGTCCCTAAAGCACAGAAGGAAACAGTGAAGGCTGAAGTGAAAAAG
GAAGACGAGCCACCTGAGCAAGCTGAGCCAGAGCCACAGAAGCATGGAAGGTGGAAAAACCCACATC
GAGGTGACAGTACCCACCTCAAATGGTGACCAAACACAGAAGCTTGCAGAAAAAACTGAAGATCTGATA
AGAATGAGGAAGAAAAAGAGAGAAAGACTAGATGGTGAAAAACATTTATATCAGACATAGCAATTTAATG
TTGGAGGATTTAGACAAGAGTCAAGAGGAGATCAAAAAACATCATGCCAGCATCAGTGAGCTGAAAAAG
AACTTCATGGAGTCTGTACCAGAACCACGGCCTAGTGAATGGGATAAACGCTTATCCACTCACTCACCC
TTCCGAAGTCTTAACATCAATGGGCAAAATCCCCACAGGAGAAGGACCTCCCCTGGTGAAGACAAAACT
GTCACCATCTCAGATAATGCCAATGCTGTGAAAAGTGAATCCCAACAAAGACGTCCCTATTGTCCAC
ACTGAGACCAAGACCATCACTTATGAGGCTGCCAGACTGACGACAACAGTGGAGACTTGGACCCAGGA
GTCTTGCTGACAGCTCAAACATCACATCTGAGACCCCAAGCAGCACCACCACAACCTCAAATTAACCAAG
ACTGTAAGGTTGGGATTTTCAGAGACACGTATTGAAAAGAGAATTGTGATCACAGGAGATGCTGATATT
GACCATGATCAGGTCCTTGTAAGCCATCAAGGAGGCAAGGAGCAGCACCAGACATGTCAGTGACC
AAGGTGGTCCACCAGGAGACCGAGATTGCTGATGAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001166005

Insert Size: 2595 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).

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:

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_001166005.1](#)

RefSeq Size: 5961 bp

RefSeq ORF: 2595 bp

Locus ID: 2035

UniProt ID: [P11171](#)

Cytogenetics: 1p35.3

Protein Families: Druggable Genome

Protein Pathways: Tight junction

MW: 97 kDa

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 (1) encodes the longest isoform (1).