

Product datasheet for **SC327122**

EPB41 (NM_001166007) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | EPB41 (NM_001166007) 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) |

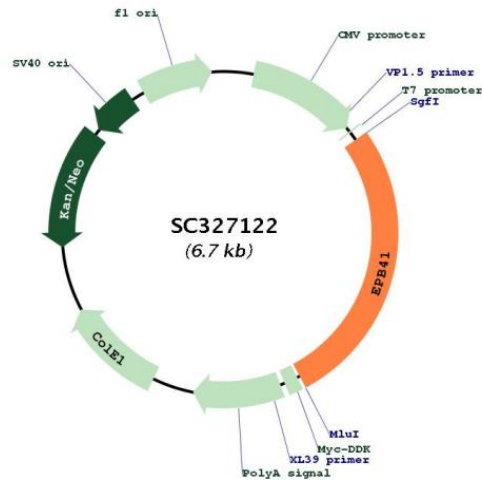


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Fully Sequenced ORF: >SC327122 representing NM_001166007.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCACTGCAAGGTTTCTTTGTTGGATGACACAGTTTATGAATGTGTTGTGGAGAAACATGCTAAGGGA
CAAGATTTGCTTAAACGAGTATGTGAGCATCTCAATCTTTTGAAGAAGACTATTTTGGTCTAGCCATT
TGGGATAACGCAACCTCTAAGACATGGCTGGATTCCGCCAAAGAAATAAAAAAGCAGTTTCGTGGTGTC
CCTTGGAAATTTTACATTTAATGTAAAGTTTATCCACCTGACCCAGCACAGTTAACAGAAGACATAACA
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GCTGATGAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001166007

Insert Size: 1806 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_001166007.1](#)

RefSeq Size: 5782 bp

RefSeq ORF: 1806 bp

Locus ID: 2035

Cytogenetics: 1p35.3

Protein Families: Druggable Genome

Protein Pathways: Tight junction

MW: 67.3 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 (5) uses an alternate acceptor splice site at an exon at the 5' end, and is missing three short, internal, in-frame coding exons compared to variant 1. This results in translation start from a downstream AUG and a shorter isoform (5) compared to isoform 1.