

Product datasheet for **SC123455**

EPB41 (BC039079) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41 (BC039079) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPB41
Synonyms:	4.1R; EL1; erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked); erythrocyte surface protein band 4.1; HE; OTTHUMP00000003772; OTTHUMP00000003773; OTTHUMP00000003774
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF:

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>OriGene sequence for BC039079 edited
CGGGAGGGCGCGCCAGGGTCGCTCGCTCCCTCCCTCCGCTGGTGCCTTTAGTCA
GTCAGCCAGCAGCAGCCGGCGGGCCCGGAGCCGAGAGGGCCCGAGCCTCGGACGCCG
CGCCTCCTCCTGCCATTGTTCTGTCGGGCTGCAGCAGTGGCGGGCGCAGGAGCCCGCCCC
GGAGCCACCGCAACATCATGACAACAGAGAAGAGTTTAGTGACTGAGGCCGAAAATTCAC
AGCACCAACAGAAAGGAAGAGGGTGAGGAAGCCATAAACTCAGGCCAACAGAACCCTCAG
AGGAGGAATCTTGTCAAACAGCAGCTGAAGGAGATAATTGGTGTGAACAGAAGCTGAAAG
CTTCTAATGGAGACACTCCTACACATGAAGACTTGACCAAGAACAAGGAGCGGACATCAG
AAAGCAGAGGACTTTACGACTATTCTCCTCGTTTCTCAAAGGCCCAAATCTCAGGTGT
CCGAGGAAGAAGGCAAAGAAGTAGAGTCAGATAAAGAAAAAGGTGAAGGAGGTCAGAAAAG
AGATAGAATTTGGAACAGTCTTGATGAAGAGATCATTTTAAAGGCCCAATTGCAGCTC
CTGAACCGGAACCTCAAACAGACCCATCTTTGGATCTTCATTCTAAGCAGTGCAGAAA
CACAGCCTGCTCAGGAAGAACTCAGAGAAGATCCAGATTTTGAATTAAGGAAGGAGAAG
GACTTGAAGAGTCTCCAAAATAGAAGTAAAAGAAGAAAGCCCTCAATCAAAGCAGAAA
CAGAATTAAGAGTTCCCAAAAACCAATCAGAAAACACAGGAACATGCACTGCAAGGTTT
CTTTGTTGGATGACACAGTTTATGAATGTGTTGTGGAGAAACATGCTAAGGGACAAGATT
TGCTTAAACGAGTATGTGAGCATCTCAATCTTTTGAAGAAGACTATTTTGGTCTAGCCA
TTTGGGATAACGCAACCTCTAAGACATGGCTGGATTCCGCAAAGAAATAAAAAGCAGG
TTCGTGGTGTCCCTTGAATTTTACATTTAATGTAAGTTTTATCCACCTGACCCAGCAC
AGTTAACAGAAGACATAACAAGATATTATTTATGTCTTCAGCTTCGGCAGGACATAGTTG
CAGGACGTCTGCCCTGTTCTTTGCAACCTTAGCATTATTAGGTTCTTACACCATCCAGT
CTGAACCTGGGAGACTACGACCCAGAACTCCATGGCGTGGATTATGTTAGTGATTTTAAAC
TGGCCCCGAATCAGACCAAGGAACCTTGAAGAGAAGGTCATGGAAGTGCATAAGTCATACA
GGTCCATGACTCCAGCTCAGGCTGACTTGGAGTTTCTTGAGAATGCCAAAAGTTGTCTA
TGTATGGAGTTGATCTTATAAAGCAAAGGACTTGAAGGAGTAGATATCATCCTAGGTG
TCTGCTCTAGTGGCCTTCTGTTTACAAAGATAAGCTGAGAATTAACCGTTCCCTTGGC
CCAAAGTCTGAAGATTTCTTATAAACGTAGTAGCTTTTTTATCAAGATTCGGCCTGGAG
AGCAAGAGCAGTATGAAAGTACCATCGGATTCAAACCTCCAGTTACCGAGCAGCTAAGA
AATTATGGAAAGTCTGTGTAGAACATCACACGTTTTTTCAGATTGACATCTACAGACACCA
TTCCAAAAGCAAATTTCTTGCCTAGGATCCAAATTTGATACAGTGGCCGGACTCAAG
CTCAGACCAGGCAAGCTAGTGTCTAATTGACAGGCTGCCCCACTTTCGAGCGTACAG
CAAGTAAACGGGCGTCCCGGAGCCTCGATGGAGCAGCAGCTGTGATTCCGGCAGACCGAA
GTCCTCGGCCACTTCTGCACCTGCCATTACTCAGGGTCAGGTTGCAGAAGGTGGCGTCC
TAGATGCCTCTGTAAAAAACAGTGGTCCCTAAAGCACAGAAGGAAACAGTGAAGGCTG
AAGTGA AAAAGGAAGACGAGCCACCTGAGCAAGCTGAGCCAGAGCCCACAGAAGCATGGA
AGGTGGA AAAAACCCACATCGAGGTGACAGTACCCACCTCAAATGGTGACCAAACACAGA
AAAAGAGAGAAAGACTAGATGGTGA AACATTTATATCAGACATAGCAATTTAATGTTGG
AGGATTTAGACAAGAGTCAAGAGGAGATCAAAAAACATCATGCCAGCATCAGTGAGCTGA
AAAAGA ACTTCATGGAGTCTGTACCAGAACCACGGCCTAGTGAATGGGATAAACGCTTAT
CCACTCACTCACCTTCCGA ACTTTAACATCAATGGGCAAATCCCACAGGAGAAGGAG
TGAGTACTTTGTCCACATGACCAATTGTGAAAATGGAGGGAATAAATGTTTTTATGTATT
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC039079 unedited ACTCTGATTTGTAAACGACTCCTTATAGGCGGCCGACGATTCCCAGGATCGGGAGGGCGC GCGCCAGGGTCGCTCGCTCGCTCCCTCCCTCCGCTGGTGCCTTATAGTCAGTCAGCCAGCA GCAGCCGGCGGGCCCGCAGCCGAGAGGGCCCGAGCCTCGGACGCCGGCGCCTCCTCCT GCCATTGTTTCGTCGGGCTGCAGCAGTGGCGGGCGCAGGAGCCCGCCCGGAGCCACCGC AACATCATGACAACAGAGAAGAGTTTATGACTGAGGCCGAAAATTCACAGCACCAACAG AAGGAAGAGGGTGAGGAAGCCATAAACTCAGGCCAACAAAGAACCCTCAGCAGGAGGAATCT TGTCAAAACAGCAGCTGAAGGAGATAATTGGTGTGAACAGAAGCTGAAAGCTTCTAATGGA GACACTCCTACACATGAAGACTTGACCAAGAACAAGGAGCGGACATCAGAAAGCAGAGGA CTTTCACGACTATTCTCCTCGTTTCTCAAAGGCCCAAATCTCAGGTGTCCGAGGAAGAA GGCAAAGAAGTAGAGTCAGATAAAGAAAAGGTGAAGGAGTCAGATAGAGATAGAATTT GGAACCACTTTGATGAAGAGATCATTTTAAAGGCCCAATTGCAGCTCCTGAACCGGAA CTCANAACAGACCCATCTTTGGATCTTCATTATTAAGCAGTGCAGAAACACAGCCTGCT CAGGAAGAACTCAGAGAAGATCCAGATTTGAATTAAGGNAGGAGAANNGACTGAAGAGT GCTCCCAAATAGAAGTAAAGAAAGAAGCCCCCTCATCAAGCAGAACAAGATGAAAGCT TCCNAAAACCATCAGAAACACAGGACATGCACTGCAAGGGTTCTGTAGATGACACAGT TATGATGTGTTGTGAGAAA
Restriction Sites:	Please inquire
ACCN:	BC039079
Insert Size:	2486 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:	<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:	BC039079.1 , AAH39079.1
RefSeq Size:	2486 bp
Locus ID:	2035
Cytogenetics:	1p35.3
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]