

Product datasheet for **SC107145**

EPB41L1 (NM_177996) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41L1 (NM_177996) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPB41L1
Synonyms:	4.1N; MRD11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_177996, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGAGAAGGACTACAGTGAGGCCGATGGCCTTTTCGGAGAGGACCACGCCAGCAAGGCCAGAAAT
CGCCCCAGAAGATTGCCAAGAAATACAAGAGTGCCATCTGCCGGTCACTCTGCTTGATGCCTCGGAGTA
TGAGTGTGAGGTGGAGAAACATGGCCGGGGCCAGGTGCTGTTTGACCTGGTCTGTGAACACCTCAACCTC
CTAGAGAAGGACTACTTCGGCCTGACCTTCTGTGATGCTGACAGCCAGAAGAACTGGCTGGACCCCTCCA
AGGAGATCAAGAAGCAGATCCGGAGTAGCCCTGGAATTTTGCCTTCACAGTCAAGTTCTACCCGCCTGA
TCCTGCCAGCTGACAGAAGACATCACAAGATACTACCTGTGCCTGCAGCTGCGGGCAGACATCATCACG
GGCCGGCTGCCATGCTCCTTTGTACGCATGCCCTACTGGGCTCTACGCTGTGCAGGCTGAGCTGGGTG
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TTCTTAGAGAATGCCAAGAAGCTTTCATGTACGGAGTAGACCTGCACCATGCCAAGGACTCTGAGGGCA
TCGACATCATGTTAGGCGTTTGTCCAATGGCCTGCTCATCTACCGGGACCGGCTGAGAATCAACCGCTT
TGCTGGCCCAAGATCCTCAAGATCTCCTACAAGAGGAGTAACTTCTATATCAAGATCCGGCCTGGGGAG
TATGAGCAATTTGAGAGCACAATTTGGCTTTAAGCTCCCAAACCACCGGTAGCCAAGAGACTGTGGAAAGG
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TGAAGGAGCCCAACAGCAAACCTCATCCACCGGGATCGAGACTGGGAACGGGAGCGCAGGCTGCCCTCCTC
CCCCGCTCCCCCTCCCCAAGGGCACCCCTGAGAAAAGCCAATGAGAGAGCAGGGCTGAGGGAGGGCTCC
GAGGAGAAAGTCAAACCACACGTCCCCGGGCCAGAGAGTGACACAGGCGATGAGGACCAGGACCAGG
AGAGGGACACGGTGTTCCTGAAGGACAACCACCTGGCCATTGAGCGCAAGTGTCCAGCATCACGGTCAG
CTCTACGCTAGCCTGGAGGCTGAGGTGGACTTACGGTCAATGGTGACTACCATGGCAGCGCTTCGAA
GACTTCTCCCGCAGCCTGCCTGAGCTCGACCGGACAAAAGCGACTCGGACACTGAGGGCCTGCTGTTCT
CCCGGGATCTCAACAAGGGGGCCCCCAGCCAGGATGATGAGTCTGGGGGATTGAGGACAGCCCGGATCG
AGGGCCCTGCTCCACCCGGATATGCCCAAGTTTGGCCCGTGAACAGAAACCATGACTGTCAGCAGT
CTGGCCATTAGAAAGAAGATTGAGCCGGAGGCCGTACTGCAGACCAGAGTCTCCGCTATGGATAACCC
AGGAGAACAGTCTCAAGTCCGGGAAGGGGGCAGCTGCCATGATCCAGGCCACAGACGGTGGCCACGGA
AATCCGTTCTCTTTCTCCGATCATCGGGAAGATGTCTCACCAGCACCTACGGCGCCACTGCGGAAACC
CTCTCAACCTCCACCACCACCATGTCACAAAACGTGAAAGGAGGGTTTTCTGAGACAAGGATCGAGA
AGCGAATCATCATTACTGGGGATGAAGATGTGATCAAGACCAGGCCCTGGCTTTGGCCATCAAGGAGGC
CAAAGTGCAGCATCCTGATATGCTGGTAACCAAAGCTGTCGTATACAGAGAAACAGACCCATCCCCAGAG
GAGAGGGACAAGAAGCCACAGGAATCCTGA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_177996 unedited GCGAATTCGGCACCAGGCCGCCCTCGCCCAACCTGCCCGACATGGGGAACCCCGGGCCC AGAGCCTAGACATGGAGGAGAAGGACTACAGTGAGGCCGATGGCCTTTCGGAGAGGACCA CGCCCAGCAAGGCCAGAAATCGCCCCAGAAAGATTGCCAAGAAATACAAGAGTGCCATCT GCCGGTCACTCTGCTTGATGCCTCGGAGTATGAGTGTGAGGTGGAGAAACATGGCCGGG GCCAGGTGCTGTTGACCTGGTCTGTGAACACCTCAACCTCCTAGAGAAGGACTACTTCG GCCTGACCTTCTGTGATGCTGACAGCCAGAAGAAGTGGCTGGACCCCTCCAAGGAGATCA AGAAGCAGATCCGGAGTAGCCCTGGAATTTTGCCTTCACAGTCAAGTTCTACCCGCCTG ATCCTGCCCAGCTGACAGAAGACATCACAAAGATACTACCTGTGCCTGCAGCTGCGGGCAG ACATCATCACGGGCCGGCTGCCATGCTCCTTTGTACGCATGCCCTACTGGGCTCCTACG CTGTGCAGGCTGAGCTGGGTGACTATGATGCTGAGGAGCATGTGGCAACTATGTCAGCG AGCTCCGCTTCGCCCTAACCAGACCCGGGAGCTGGAGGAGAGGATCATGGAGCTGCATA AGACATATAGGGGATGACCCCGGAGAAGCAGANATCCACTTCTAGAGAATGCCAAGA AGCTTTCATGTACG
Restriction Sites:	NotI-NotI
ACCN:	NM_177996
Insert Size:	3300 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:	NM_177996.1 , NP_818932.1
RefSeq Size:	5863 bp
RefSeq ORF:	2340 bp
Locus ID:	2036
UniProt ID:	Q9H4G0
Cytogenetics:	20q11.23
Protein Families:	Druggable Genome
Protein Pathways:	Tight junction

Gene Summary:

Erythrocyte membrane protein band 4.1 (EPB41) is a multifunctional protein that mediates interactions between the erythrocyte cytoskeleton and the overlying plasma membrane. The encoded protein binds and stabilizes D2 and D3 dopamine receptors at the neuronal plasma membrane. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2015]

Transcript Variant: This variant (2) has a different 5' UTR and multiple coding region differences compared to variant 1. The resulting isoform (b) has a shorter N-terminus and lacks two in-frame segments compared to isoform a. Variants 2 and 5 both encode the same isoform (b). 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.