

## Product datasheet for **SC332666**

### EPB41L1 (NM\_001258331) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41L1 (NM_001258331) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPB41L1
Synonyms:	4.1N; MRD11
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC332666 representing NM\_001258331.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGAGGAGAAGGACTACAGTGAGGCCGATGGCCTTTTCGGAGAGGACCACGCCAGCAAGGCCAGAAA
TCGCCCCAGAAGATTGCCAAGAAATAACAAGAGTGCCATCTGCCGGTCACTCTGCTTGATGCCTCGGAG
TATGAGTGTGAGGTGGAGAAACATGGCCGGGCCAGGTGCTGTTTGACCTGGTCTGTGAACACCTCAAC
CTCCTAGAGAAGGACTACTTCGGCCTGACCTTCTGTGATGCTGACAGCCAGAAGAAGCTGGTGGACCCC
TCCAAGGAGATCAAGAAGCAGATCCGGAGTAGCCCTGGAATTTTGCCTTACAGTCAAGTTCTACCCG
CCTGATCTGCCAGCTGACAGAAGACATCACAAGATACTACCTGTGCCTGCAGCTGCGGGCAGACATC
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CGCCTGGGGAGTATGAGCAATTTGAGAGCACAATTTGGCTTAAAGCTCCCAAACCCGGTCAAGCAAG
AGACTGTGGAAGGTCTGCATCGAGCATCATACATTCTTCCGGCTGGTGTCCCTGAGCCCCACCCAAG
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GAGCGCAGGCTGCCCTCCTCCCGCCTCCCGCTCCCGCAAGGGCACCCCTGAGAAAGCCAATGAGAGA
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ATCCCAGGCCACAGACGGTGGCCACGGAAATCCGTTCTTTCTCCGATCATCGGAAAGATGTCTC
ACCAGCACCACGCGCCACTGCGGAAACCTCTCAACCTCCACCACCACCCATGTACCAAAAAGTGTG
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GACCAGGCCCTGGCTTTGGCCATCAAGGAGGCCAAACTGCAGCATCCTGATATGCTGGTAACCAAGCT
GTCGTATACAGAGAAACAGACCCATCCCGAGGAGAGGGACAAGAAGCCACAGGAATCCTGA
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001258331

**Insert Size:** 2340 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:**

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\\_001258331.1](#)

**RefSeq Size:** 5972 bp

**RefSeq ORF:** 2340 bp

**Locus ID:** 2036

**UniProt ID:** [Q9H4G0](#)

**Cytogenetics:** 20q11.23

**Protein Families:** Druggable Genome

**Protein Pathways:** Tight junction

**MW:** 87.6 kDa

**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 (5) differs in the 5' UTR and coding sequence and lacks two alternate in-frame exons compared to variant 1. The resulting isoform (b) is shorter at the N-terminus and lacks two alternate internal 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.