

Product datasheet for **SC332665**

EPB41L1 (NM_001258330) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41L1 (NM_001258330) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPB41L1
Synonyms:	4.1N; MRD11
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

Fully Sequenced ORF: >SC332665 representing NM_001258330.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGGTTTTCTTGGGGAGGATCAATGAGGTAGAACCTGCAAAGGGCTTAGCAGAGAGCCTAGCACCTACT
GAGCGCTCAGTAAAGAGCCTAGACATGGAGGAGAAGGACTACAGTGAGGCCGATGGCCTTTCGGAGAGG
ACCACGCCCAGCAAGGCCAGAAATCGCCCCAGAAGATTGCCAAGAAATACAAGAGTGCCATCTGCCGG
GTCACTCTGCTTGATGCCTCGGAGTATGAGTGTGAGGTGGAGAAACATGGCCGGGGCCAGGTGCTGTTT
GACCTGGTCTGTGAACACCTCAACCTCCTAGAGAAGGACTACTCGGCCTGACCTTCTGTGATGCTGAC
AGCCAGAAGAAGTGGCTGGACCCCTCCAAGGAGATCAAGAAGCAGATCCGGAGTAGCCCTGGAATTTT
GCCTTCACAGTCAAGTTCTACCCGCTGATCCTGCCAGCTGACAGAAGACATCACAAGATACTACCTG
TGCCTGCAGTGCGGGCAGACATCATCACGGGCGGCTGCCATGCTCCTTGTACGCATGCCCTACTG
GGCTCCTACGCTGTGCAGGCTGAGCTGGGTGACTATGATGCTGAGGAGCATGTGGCAACTATGTCAGC
GAGCTCCGCTTCGCCCTAACCCAGACCCGGGAGCTGGAGGAGAGGATCATGGAGCTGCATAAGACATAT
AGGGGGATGACCCCGGGAGAAGCAGAAATCCACTTCTTAGAGAATGCCAAGAAGCTTTCATGTACGGA
GTAGACCTGCACCATGCCAAGGACTCTGAGGGCATCGACATCATGTTAGCGGTTTGTGCCAATGGCCTG
CTCATCTACCCGGACCGCTGAGAATCAACCGCTTTCCTGGCCCAAGATCCTCAAGATCTCCTACAAG
AGGAGTAACTTCTATATCAAGATCCGGCCTGGGGAGTATGAGCAATTTGAGAGCACAATTTGGCTTTAAG
CTCCAAACCACCGGTCAGCCAAGAGACTGTGGAAGGTCTGCATCGAGCATCATACTTCTCCGGCTG
GTGTCCCTGAGCCCCACCCAAGGGCTTCTGGTGATGGGCTCCAAGTTCGGTACAGTGGGAGGACC
CAGGCACAGACTCGCCAGGCCAGCGCCCTATTGACCGCCTGCACCTTCTTTGAGCGTCTTCCAGC
AAACGGTACACCATGTCCCGCAGCCTTGATGGAGCAGAGTTCTCCCGCCAGCCTCGGTACGCGAGAAC
CATGATGCAGGGCCTGACGGTGACAAGCGGGATGAGGATGGCGAGTCTGGGGGGCAACGGTCAGAGGCT
GAGGAGGGAGAGGTGAGGACTCCAACCAAGATCAAGGAGCTAAAGTTCTTAGACAAGCCAGAAGATGTC
TTGCTGAAGCACCAGGCCAGCATCAATGAGCTCAAAGGACCCTGAAGGAGCCCAACAGCAAATCATC
CACCGGGATCGAGACTGGGAACGGGAGCGCAGGCTGCCCTCCTCCCGCCTCCCTCCCAAGGGC
ACCCCTGAGAAAGCCAATGAGCCGTGAAAACAGAAACCATGACTGTCAGCAGTCTGGCCATTAGAAAG
AAGATTGAGCCGGAGGCCGACTGCAGACCAGAGTCTCCGCTATGGATAACACCCAGCAGTTGATGGG
AGTGCCTCAGTGGGAGGGAGTTCATAGCAACCACTCCCTCCATCACCACGGAGACCATATCGACCACC
ATGAGAAACAGTCTCAAGTCCGGAAAGGGGCGAGCTGCCATGATCCAGGCCACAGACGGTGGCCAGG
GAAATCCGTTCTTTTCCGATCATCGGAAAGATGTCCTCACCAGCACCTACGGCGCCACTGCGGAA
ACCCTCTCAACCTCCACCACCACCATGTCAACAAAAGTGTGAAAGGAGGTTTTCTGAGACAAGGATC
GAGAAGCGAATCATCATTACTGGGGATGAAGATGTCGATCAAGACCAGGCCCTGGCTTTGGCCATCAAG
GAGGCCAAACTGCAGCATCCTGATATGCTGTAACCAAAGCTGTCGTATACAGAGAAACAGACCCATCC
CCAGAGGAGAGGGACAAGAAGCCACAGGAATCC TGA
  
```

Restriction Sites: Sgfl-MluI

ACCN: NM_001258330

Insert Size: 2106 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_001258330.1](#)

RefSeq Size: 5745 bp

RefSeq ORF: 2106 bp

Locus ID: 2036

UniProt ID: [Q9H4G0](#)

Cytogenetics: 20q11.23

Protein Families: Druggable Genome

Protein Pathways: Tight junction

MW: 78.8 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 (4) differs in the 5' UTR and coding sequence and lacks two alternate in-frame exons compared to variant 1. The resulting isoform (d) has a shorter and distinct N-terminus and lacks two alternate internal segments compared to isoform a.

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. **CCDS Note:** The 5'-most in-frame start codon is annotated for this transcript variant, which is supported by mRNA AK126875.1. It is present in a novel exon not found in other transcript variants for this gene. The annotated start codon is restricted to select higher primate species, including human, chimp, gorilla, orangutan and gibbon. It has a weak Kozak sequence and may sometimes be bypassed due to leaky scanning by ribosomes, which could result in use of a better conserved downstream start codon. There is no experimental evidence to indicate which start codon is preferentially used by this variant in vivo.