

Product datasheet for **RC202596**

EPB41L1 (NM_177996) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41L1 (NM_177996) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EPB41L1
Synonyms:	4.1N; MRD11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC202596 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGAGAAGGACTACAGTGAGGCCGATGGCCTTTCGAGAGGACCACGCCAGCAAGGCCAGAAAT
CGCCCCAGAAGATTGCCAAGAAATACAAGAGTGCCATCTGCCGGTCACTCTGCTTGATGCCTCGGAGTA
TGAGTGTGAGGTGGAGAAACATGGCCGGGGCCAGGTGCTGTTGACCTGGTCTGTGAACCTCAACCTC
CTAGAGAAGGACTACTTCGGCCTGACCTTCTGTGATGCTGACAGCCAGAAGAACTGGCTGGACCCCTCCA
AGGAGATCAAGAAGCAGATCCGGAGTAGCCCTGGAATTTGCCTTACAGTCAAGTTCTACCCGCCTGA
TCCTGCCAGCTGACAGAAGACATCACAAGATACTACCTGTGCCTGCAGCTGCGGGCAGACATCATCAG
GGCCGGCTGCCATGCTCCTTTGTACGCATGCCCTACTGGGCTCCTACGCTGTGCAGGCTGAGCTGGGTG
ACTATGATGCTGAGGAGCATGTGGCAACTATGTCAGCGAGCTCCGCTTCGCCCCAACCAGACCCGGGA
GCTGGAGGAGAGGATCATGGAGCTGCATAAGACATATAGGGGGATGACCCCGGGAGAAGCAGAAATCCAC
TTCTTAGAGAATGCCAAGAAGCTTTCATGTACGGAGTAGACCTGCACCATGCCAAGGACTCTGAGGGCA
TCGACATCATGTTAGGCGTTTGTGCCAATGGCCTGCTCATCTACCGGGACCGGCTGAGAATCAACCCTT
TGCTGGCCCAAGATCCTCAAGATCTCCTACAAGAGGAGTAACCTTCTATCAAGATCCGGCCTGGGGAG
TATGAGCAATTTGAGAGCACAATTGGCTTTAAGCTCCCAAACCACCGGTACGCCAAGAGACTGTGGAAGG
TCTGCATCGAGCATCATACATCTTCCGGCTGGTGTCCCTGAGCCCCACCCAAGGGCTTCTGGTGAT
GGGCTCCAAGTTCCGGTACAGTGGGAGGACCCAGGCACAGACTCGCCAGGCCAGCGCCCTCATTGACCGG
CCTGCACCCTTCTTTGAGCGTCTTCCAGCAAACGGTACACCATGTCCCGCAGCCTTGATGGAGCAGAGT
TCTCCCGCCAGCCTCGGTACAGGAGAACCATGATGCAGGGCCTGACGGTGACAAGCGGGATGAGGATGG
CGAGTCTGGGGGGCAACGGTCAGAGGCTGAGGAGGGAGAGGTACAGGACTCCAACCAAGATCAAGGAGCTA
AAGTTCTTAGACAAGCCAGAAGATGTCTTGTGAAGCACCAGGCCAGCATCAATGAGCTCAAAAGGACCC
TGAAGGAGCCCAACAGCAAACCTCATCCACCGGGATCGAGACTGGGAACGGGAGCGCAGGCTGCCCTCCTC
CCCCGCTCCCCCTCCCCAAGGGCACCCCTGAGAAAGCCAATGAGAGAGCAGGGCTGAGGGAGGGCTCC
GAGGAGAAAGTCAAACCACCAGTCCCCGGGCCCCAGAGAGTGACACAGGCGATGAGGACCAGGACCAGG
AGAGGGACACGGTGTCTGAAGGACAACCACCTGGCCATTGAGCGCAAGTGTCCAGCATCACGGTCAG
CTCTACGTCTAGCCTGGAGGCTGAGGTGGACTTACGGTCATTGGTGACTACCATGGCAGCGCCTTCGAA
GACTTCTCCCGCAGCCTGCCTGAGCTCGACCGGACAAAAGCGACTCGGACACTGAGGGCCTGCTGTTCT
CCCGGGATCTCAACAAGGGGGCCCCAGCCAGGATGATGAGTCTGGGGGCAATTGAGGACAGCCCGGATCG
AGGGGCTGCTCCACCCCGGATATGCCCAAGTTTGTAGCCCGTGAAAACAGAAACCATGACTGTGACGAGT
CTGGCCATTAGAAAGAAGATTGAGCCGGAGGCCGTAAGTGCAGACCAGAGTCTCCGCTATGGATAACACCC
AGGAGAACAGTCTCAAGTCCGGGAAGGGGGCAGCTGCCATGATCCAGGCCACAGACGGTGGCCACGGAA
AATCCGTTCTCTTCTCCGATCATCGGGAAAGATGTCCTCACCAGCACCTACGGCGCCACTGCGGAAACC
CTCTCAACCTCCACCACCACCATGTACCAAAACTGTGAAAGGAGGGTTTTCTGAGACAAGGATCGAGA
AGCGAATCATCATTACTGGGGATGAAGATGTCGATCAAGACCAGGCCCTGGCTTTGGCCATCAAGGAGGC
CAAACCTGCAGCATCCTGATATGCTGGTAACCAAGCTGTGATACAGAGAAACAGACCCATCCCCAGAG
GAGAGGGACAAGAAGCCACAGGAATCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202596 protein sequence
Red=Cloning site Green=Tags(s)

MEEKDYSEADGLSERTTPSKAQKSPQKIAKKYKSAICRVTLDDASEYECEVEKHGRGQVLFDLVCEHLNL
LEKDYFGLTFCDADSQKNWLDPSKEIKKQIRSSPWNFAFVTKFYPPDPAQLTEDITRYYLCLQLRADIIT
GRLPCSFVTHALLGSYAVQAEALGDYDAEEHVGNVYSELRFAPNQTRELEERIMELHKTYRGMTPGEAEIH
FLENAKKLSMYGVDLHHAKDSEGIDIMLGVCANGLLIYRDRLRINRFAWPKILKISYKRSNFYIKIRPGE
YEQFESTIGFKLPNHRSAKRLWKVCIHHHTFFRLVSPPEPPKGFVLMGSKFRYSGRTQAQTRQASALIDR
PAPFFERSSSKRYTMSRSLDGAEFSRPASVSENHDAGPDGDKRDEDESGGQRSEAEEGEVRTPTKIKEL
KFLDKPEDVLLKHQASINELKRTLKEPNSKLIHRDRDWERERLPSASPSPKGTPEKANERAGLREGS
EEKVKPPRPAPESDTGDEDQDQERDTVFLKDNHLAIERKCSSITVSSTSSLEAEVDFTVIGDYHGSAFE
DFSRSLPELDRDKSDSDTEGLLFSRDLNKGAPSQDDESGGIEDSPDRGACSTPDMPQFEPVKTTETMTVSS
LAIRKKIEPEAVLQTRVSAMDNTQENSLKSGKGAAMIPGPQTVATEIRSLSPIIGKDVLTSTYGATAET
LSTSTTHVTKTKGGFSETRIEKRIIITGDEDVDQDQALALAIKEAKLQHPDMLVTKAVVYRETDPSPE
ERDKKPQES

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6156_f03.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_177996

ORF Size: 2337 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_177996.2](#)

RefSeq Size: 5967 bp

RefSeq ORF: 2340 bp

Locus ID: 2036

UniProt ID: [Q9H4G0](#)

Cytogenetics: 20q11.23

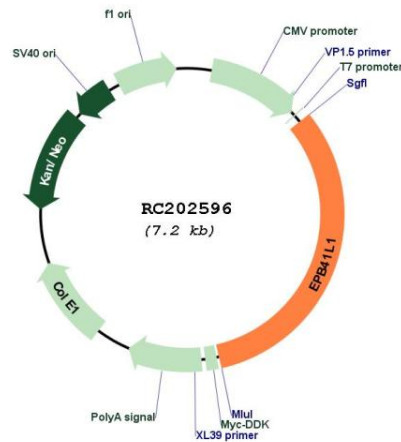
Protein Families: Druggable Genome

Protein Pathways: Tight junction

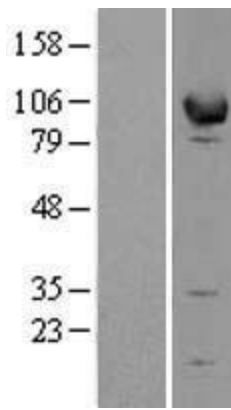
MW: 87.6 kDa

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]

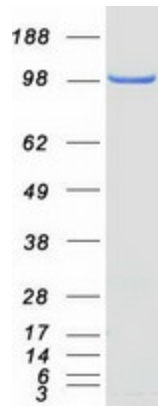
Product images:



Circular map for RC202596



Western blot validation of overexpression lysate (Cat# [LY403596]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202596 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EPB41L1 protein (Cat# [TP302596]). The protein was produced from HEK293T cells transfected with EPB41L1 cDNA clone (Cat# RC202596) using MegaTran 2.0 (Cat# [TT210002]).