

Product datasheet for **RC206660**

EPB41L1 (NM_012156) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41L1 (NM_012156) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC206660 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACAACAGAGACAGGCCCGACTCTGAGGTGAAGAAAGCTCAGGAGGAGGCCCGCAGCAGCCCGAGG
 CTGCTGCCGCTGTGACCAACCCCTGTGACCCCTGCAGGCCACGGCCACCCAGAGGCCAACTCCAATGAGAA
 GCATCCATCCCAGCAGGACACGCGGCTGCTGAACAGAGCCTAGACATGGAGGAGAAAGACTACAGTGAG
 GCCGATGGCCTTTCGAGAGGACCACGCCAGCAAGGCCAGAAAATCGCCCCAGAAGATTGCCAAGAAAAT
 ACAAGAGTGCCATCTGCCGGTCACTCTGCTTGTGCCTCGGAGTATGAGTGTGAGGTGGAGAAACATGG
 CCGGGGCCAGGTGCTGTTTGACCTGGTCTGTGAACACCTCAACCTCCTAGAGAAGGACTACTTCGGCCTG
 ACCTTCTGTGATGCTGACAGCCAGAAGAACTGGCTGGACCCCTCAAGGAGATCAAGAAGCAGATCCGGA
 GTAGCCCTTGAATTTTGCCTTACAGTCAAGTTCTACCCGCTGATCCTGCCAGCTGACAGAAGACAT
 CACAAGATACTACCTGTGCTGCAGCTGCGGGCAGACATCATCAGGGCCGGCTGCCATGCTCCTTTGTC
 ACGCATGCCCTACTGGGCTCCTACGCTGTGACGGCTGAGCTGGGTGACTATGATGCTGAGGAGCATGTGG
 GCAACTATGTGACGAGCTCCGCTTCGCCCTAACCCAGACCCGGGAGCTGGAGGAGAGGATCATGGAGCT
 GCATAAGACATATAGGGGATGACCCCGGGAGAAGCAGAAAATCCACTTCTTAGAGAATGCCAAGAAGCTT
 TCCATGTACGGAGTAGACCTGCACCATGCCAAGGACTCTGAGGGCATCGACATCATGTTAGGCGTTTGTG
 CCAATGGCCTGCTCATCTACCGGACCGGCTGAGAATCAACCGCTTTGCCTGGCCCAAGATCCTCAAGAT
 CTCCTACAAGAGGAGTAACCTTATATCAAGATCCGGCTGGGGAGTATGAGCAATTTGAGAGCACAAAT
 GGCTTTAAGCTCCCAAACCACCGGTGAGCAAGAGACTGTGGAAGTCTGCATCGAGCATCATACATTCT
 TCCGGCTGGTGTCCCTGAGCCCCACCAAGGGCTTCTGGTGTGGGCTCCAAGTTCCGGTACCGTGG
 GAGGACCCAGGCACAGACTCGCCAGGCCAGCGCCCTATTGACCGGCTGCACCCTTCTTTGAGCGTTCT
 TCCAGCAAACGGTACACCATGTCCCGCAGCCTTGATGGAGCAGAGTTCTCCCGCCAGCCTCGGTACGCG
 AGAACCATGATGCAGGGCTGACGGTGACAAGCGGGATGAGGATGGCGAGTCTGGGGGGAACGGTACAG
 GGCTGAGGAGGGAGAGGTGAGGACTCCAACCAAGATCAAGGAGCTAAAGCCGGAGCAGGAAACCACGCCG
 AGACACAAGCAGGAGTTCTTAGACAAGCCAGAAGATGTCTTGCTGAAGCACCAGGCCAGCATCAATGAGC
 TCAAAAGGACCTGAAGGAGCCCAACAGCAAATCATCCACCGGATCGAGACTGGGAACGGGAGCGCAG
 GCTGCCCTCTCCCCGCTCCCCCTCCCCAAGGGCACCCCTGAGAAAGCCAATGAGAGAGCAGGGCTG
 AGGGAGGGCTCCGAGGAGAAAGTCAAACCACACGTCCCCGGGCCCCAGAGAGTGACACAGGCGATGAGG
 ACCAGGACCAGGAGAGGGACACGGTGTTCCTGAAGGACAACCACCTGGCCATTGAGCGCAAGTGCTCCAG
 CATCACGGTCAGCTCTACGTCTAGCCTGGAGGCTGAGGTGGACTTACCGTCAATTGGTGACTACCATGGC
 AGCGCCTTCAAGACTTCTCCCGCAGCCTGCCTGAGCTCGACCGGGACAAAAGCGACTCGGACACTGAGG
 GCCTGTGTTCTCCCGGATCTCAACAAGGGGGCCCCAGCCAGGATGATGAGTCTGGGGCATTGAGGA
 CAGCCCGGATCGAGGGGCTGCTCCACCCCGGATATGCCCAAGTTTGGCCCGTGAACACAGAAACCATG
 ACTGTCAGCAGTCTGGCCATTAGAAAGAAGATTGAGCCGGAGGCCGACTGCAGACCAGAGTCTCCGCTA
 TGGATAACACCCAGGTTGATGGGAGTGCCTCAGTGGGGAGGGAGTTCATAGCAACCACTCCCTCCATCAC
 CACGGAGACCATATCGACCACCATGGAGAACAGTCTCAAGTCCGGGAAGGGGGCAGCTGCCATGATCCCCA
 GGCCACAGACGGTGGCCACGGAATCCGTTCTCTTTCTCCGATCATCGGGAAAGATGTCCTCACCAAGCA
 CCTACGGCGCCTGCGGAAACCTCTCAACCTCCACCACCACCATGTACCAAAAAGTGTGAAAGGAGG
 GTTTTCTGAGACAAGGATCGAGAAGCGAATCATCATTACTGGGGATGAAGATGTCGATCAAGACCAGGCC
 CTGGCTTTGGCCATCAAGGAGGCCAAACTGCAGCATCCTGATATGCTGGTAACCAAAAGCTGTCGTATACA
 GAGAAACAGACCCATCCCAGAGGAGAGGGACAAGAAGCCACAGGAATCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206660 protein sequence
 Red=Cloning site Green=Tags(s)

MTTETGPDSEVKKAQEEAPQQPEAAAAVTTPVTPAGHGHPEANSNEKHPSQQDTRPAEQSLDMEEKDYSE
 ADGLSERTTPSKAQKSPQKI AKKYKSAICRVTL LDASEYECEVEKHGRGQV LFDLVCEHLNLL EKDYFGL
 TFC DADSQKNWLDPSKEIKKQIRSSPWNFAFTVKFYPPDPAQLTEDITRYYLCLQLRADIITGRLPCSFV
 THALLGSYAVQAELGDYDAEEHVGNYVSELRFAPNQTRLEERIMELHKTYRGMTPGEAEIHFL ENAKKL
 SMYGVDLHHA KDSE GIDIMLGVCANGLLIYRDRLRINRF AWPKILKISYKRSNFYIKIRPGEYEQFESTI
 GFKLPNHRSAKRLWKVCI EHTFFRLVSP EPPPKGFLVMGSKFRYSGR TQAQTRQASALIDRPAPFFERS
 SSKRYTMSRSLDGA EFSRPASVSENHDAGPDGDKRDE DGE SGGQRSEAE EGEV RPTPKIKELKPEQETTP
 RHKQEF LDKPEDVLLKHQASINELKRTLKEPNSKL IHRDRDWERERRLPSPASPSPKGTPEKANERAGL
 REGSEKVKPPRPRAPESDTGDEDQDQERDTVFLKDNHLAIERKCS SIVSSTSSLEAEVDFTVIGDYHG
 SAFEDFSRSLPELDRDKSDSDTEGLLF SRDLNKGAPSQDDE SGGIEDSPDRGACSTPDM PQFEPVKTETM
 TVSSLAIRKKIEPEAVLQTRVSAMDNTQVDGSASV GREFIATTPSITTETISTTMENSLKSGKGAAMIP
 GPQTVATEIRSLSPIIGKDVLTSTYGATAETLSTSTTTHVTKTKVGGFSETRIEKR IITGDEDVDQDQA
 LALAIKEAKLQHPDMLVTKAVVYRETDP SPEERDKKPQES

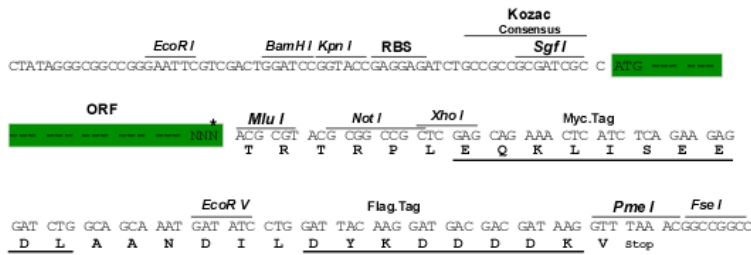
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6834_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

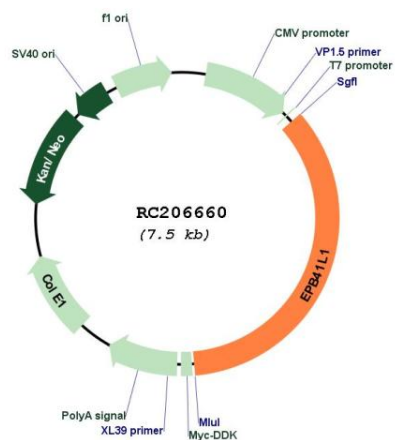
Cloning sites used for ORF Shuttling:



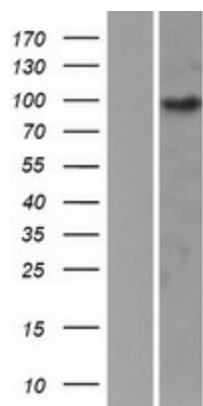
* The last codon before the Stop codon of the ORF

ACCN:	NM_012156
ORF Size:	1140 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:	<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_012156.1
RefSeq Size:	6276 bp
RefSeq ORF:	2646 bp
Locus ID:	2036
UniProt ID:	Q9H4G0
Cytogenetics:	20q11.23
Protein Families:	Druggable Genome
Protein Pathways:	Tight junction
MW:	98.4 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]

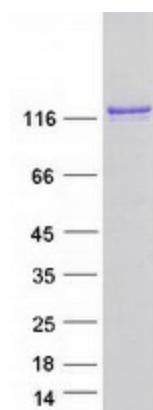
Product images:



Circular map for RC206660



Western blot validation of overexpression lysate (Cat# [LY415924]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206660 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EPB41L1 protein (Cat# [TP306660]). The protein was produced from HEK293T cells transfected with EPB41L1 cDNA clone (Cat# RC206660) using MegaTran 2.0 (Cat# [TT210002]).