

Product datasheet for **RG202596**

EPB41L1 (NM_177996) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41L1 (NM_177996) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EPB41L1
Synonyms:	4.1N; MRD11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG202596 representing NM_177996
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGAGGAGAAGGACTACAGTGAGGCCGATGGCCTTTTCGAGAGGACCACGCCAGCAAGGCCAGAAAT
 CGCCCCAGAAGATTGCCAAGAAATACAAGAGTGCCATCTGCCGGGTCACTCTGTTGATGCCTCGGAGTA
 TGAGTGTGAGGTGGAGAAACATGGCCGGGGCCAGGTGCTGTTTGACCTGGTCTGTGAACACCTCAACCTC
 CTAGAGAAGGACTACTTCGGCCTGACCTTCTGTGATGCTGACAGCCAGAAGAACTGGCTGGACCCCTCCA
 AGGAGATCAAGAAGCAGATCCGGAGTAGCCCTGGAATTTTGCCTTCACAGTCAAGTTCTACCCGCTGA
 TCCTGCCAGCTGACAGAAGACATCACAAGATACTACCTGTGCCTGCAGCTGCGGCAGACATCATCAG
 GGCCGGCTGCCATGCTCCTTTGTACGCATGCCCTACTGGGCTCCTACGCTGTGCAGGCTGAGCTGGGTG
 ACTATGATGCTGAGGAGCATGTGGGCAACTATGTCAGCGAGCTCCGCTTCGCCCCAACCAGACCCGGGA
 GCTGGAGGAGAGGATCATGGAGCTGCATAAGACATATAGGGGGATGACCCCGGGAAGCAGAAATCCAC
 TTCTTAGAGAATGCCAAGAAGCTTTCATGTACGAGTAGACCTGCACCATGCCAAGGACTCTGAGGGCA
 TCGACATCATGTTAGCGTTTGTGCCAATGGCCTGCTCATCTACCGGGACCGGCTGAGAATCAACCGCTT
 TGCTTGCCCAAGATCCTCAAGATCTCCTACAAGAGGAGTAACCTCTATATCAAGATCCGGCCTGGGGAG
 TATGAGCAATTTGAGAGCACAATTGGCTTTAAGCTCCCAACCACCGGTGAGCAAGAGACTGTGGAAGG
 TCTGCATCGAGCATCATACATCTTCCGGCTGGTGTCCCTGAGCCCCACCCAAAGGGCTTCTGGTGAT
 GGGCTCCAAGTTCCGGTACAGTGGGAGGACCCAGGCACAGACTCGCCAGGCCAGCGCCCTCATTGACCGG
 CCTGCACCCTTCTTTGAGCGTTCTTCCAGCAACGGTACACCATGTCCCGCAGCCTTGATGGAGCAGAGT
 TCTCCCGCCAGCCTCGGTGAGGAGAACCATGATGCAGGGCCTGACGGTGACAAGCGGGATGAGGATGG
 CGAGTCTGGGGGGCAACGGTCAAGAGGCTGAGGAGGGAGAGGTGAGGACTCCAACCAAGATCAAGGAGCTA
 AAGTTCTTAGACAAGCCAGAAGATGTCTTGCTGAAGCACCAGGCCAGCATCAATGAGCTCAAAAGGACCC
 TGAAGGAGCCCAACAGCAAACTCATCCACCGGGATCGAGACTGGGAACGGGAGCGCAGGCTGCCCTCCTC
 CCCCCTCCCCCTCCCCAAGGGCACCCCTGAGAAAGCCAATGAGAGAGCAGGGCTGAGGGAGGGCTCC
 GAGGAGAAAGTCAAACCACACGTCCCCGGGCCCCAGAGAGTGACACAGGCGATGAGGACCAGGACCAGG
 AGAGGGACACGGTGTCTGAAGGACAACCACCTGGCCATTGAGCGCAAGTGTCCAGCATCACGGTCAG
 CTCTACGTCTAGCCTGGAGGCTGAGGTGGAATCACGGTCATTGGTGACTACCATGGCAGCGCTTCGAA
 GACTTCTCCCGCAGCCTGCCTGAGCTCGACCGGACAAAAGCGACTCGGACACTGAGGGCCTGCTGTTCT
 CCCGGGATCTCAACAAGGGGGCCCCAGCCAGGATGATGAGTCTGGGGGATTGAGGACAGCCCGGATCG
 AGGGGCTGCTCCACCCGGATATGCCCAAGTTTGAAGCCGTGAAAACAGAAACCATGACTGTGACAGT
 CTGGCCATTAGAAAGAAGATTGAGCCGGAGGCCGTACTGCAGACCAGAGTCTCCGCTATGGATAACACCC
 AGGAGAACAGTCTCAAGTCCGGGAAGGGGGCAGTGCCATGATCCAGGCCACAGACGGTGGCCACGGA
 AATCCGTTCTCTTCTCCGATCATCGGGAAGATGTCTCACCAGCACCTACGGCGCCACTGCGGAAACC
 CTCTCAACCTCCACCACCCCATGTACCAAACTGTGAAAGGAGGGTTTTCTGAGACAAGGATCGAGA
 AGCGAATCATCATTACTGGGGATGAAGATGTCGATCAAGACCAGGCCCTGGCTTTGGCCATCAAGGAGGC
 CAAACTGCAGCATCCTGATATGCTGGTAACCAAGCTGTCGTATACAGAGAAACAGACCCATCCCCAGAG
 GAGAGGGACAAGAAGCCACAGGAATCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

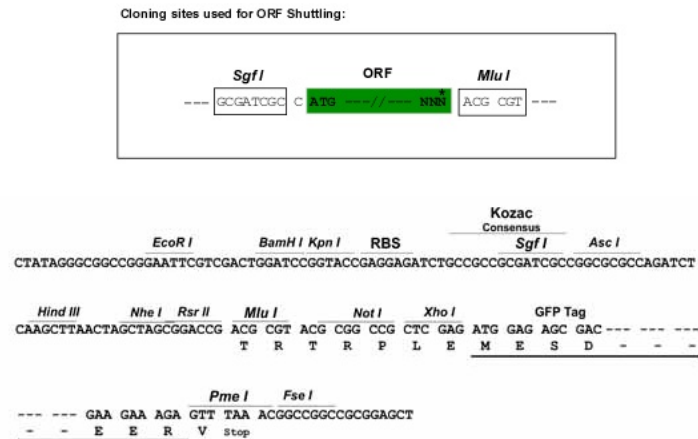
Protein Sequence: >RG202596 representing NM_177996
 Red=Cloning site Green=Tags(s)

MEEKDYSEADGLSERTTPSKAQKSPQKIAKKYKSAICRVTLDDASEYECEVEKHGRGQVLFDLVCEHLNL
 LEKDYFGLTFCDADSQKNWLDPSKEIKQIRSSPWNFAFTVKFYPPDPAQLTEDITRYYLCLQLRADIIIT
 GRLPCSFVTHALLGSYAVQAEFGDYDAEEHVGNVYSELRFAPNQTRELEERIMELHKTyrGMTpGEAEIH
 FLENAKKLSMYGVDLHHAKDSEGIDIMLGVCANGLLIYRDRLRINRFAPWKILKISYKRSNFYIKIRPGE
 YEQFESTIGFKLPNHRSAKRLWKVCIEHHTFFRLVSPPEPPKGFVLMGSKFRYSGRtQAQTRQASALIDR
 PAPFFERSSSKRYTMSRSLDGAEFsrPASVSENHDAGPDGDKRDEdGESGGQRSEAEeGEVRTPTKIKEL
 KFLDKPEDVLLKHQASINELKRTLKEPNSKLIHRDRDWERERRLPSSPASpSPKGTPEKANERAGLREGS
 EEKVKPPRPAPESDTGDEDQDQERDTVFLKDNHLAIERKCSsITVSSTSSLEAEVDFTVIGDYHGSAFE
 DfSRSLPELDRDKSDSDTEGLLFSRDLNKGAPSQDDESGGIEDSPDRGACSTPDMpQFEPVKtETMTVSS
 LAIRKKIEPEAVLQTRVSAMDNTQENSLKSGKGAAMIPGPQTVATEIRSLSPiIGKDVLTSTYGATAET
 LSTSTTHVTKTVKGGFSETRIEKRIITGDEDVDQDQALALAIKEAKLQHPDMLVTKAVVYRETDPSPe
 ERDKKPQES

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177996

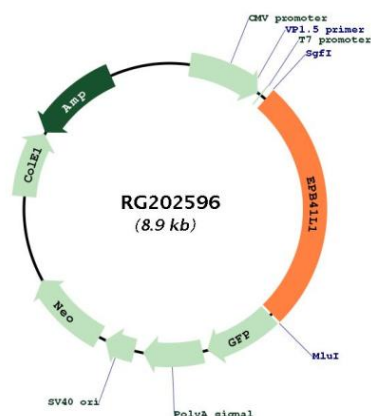
ORF Size: 2337 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_177996.2</u>
RefSeq Size:	5863 bp
RefSeq ORF:	2340 bp
Locus ID:	2036
UniProt ID:	<u>Q9H4G0</u>
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]

Product images:



Circular map for RG202596