

Product datasheet for **RG234991**

EPB41L1 (NM_001258329) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41L1 (NM_001258329) 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)



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ORF Nucleotide Sequence:

>RG234991 representing NM_001258329
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACAACAGAGACAGGCCCGACTCTGAGGTGAAGAAAGCTCAGGAGGAGGCCCGCAGCAGCCCGAGG
 CTGCTGCCGCTGTGACCACCCCTGTGACCCTGCAGGCCACGGCCACCCAGAGGCCAACTCCAATGAGAA
 GCATCCATCCCAGCAGGACACGCGGCTGCTGAACAGAGCCTAGACATGGAGGAGAAAGACTACAGTGAG
 GCCGATGGCCTTTCGAGAGGACCACGCCAGCAAGGCCAGAAAATCGCCCCAGAAGATTGCCAAGAAAT
 ACAAGAGTGCCATCTGCCGGTCACTCTGCTTGTGCCTCGGAGTATGAGTGTGAGGTGGAGAAACATGG
 CCGGGGCCAGGTGCTGTTTGACCTGGTCTGTGAACACCTCAACCTCCTAGAGAAGGACTACTTCGGCCTG
 ACCTTCTGTGATGCTGACAGCCAGAAGAACTGGCTGGACCCTCAAGGAGATCAAGAAGCAGATCCGGA
 GTAGCCCTTGAATTTTGCCTTACAGTCAAGTTCTACCCGCTGATCCTGCCAGCTGACAGAAGACAT
 CACAAGATACTACCTGTGCTGCAGCTGCGGGCAGACATCATCAGGGCCGGCTGCCATGCTCCTTTGTC
 ACGCATGCCCTACTGGGCTCCTACGCTGTGACGGCTGAGCTGGGTGACTATGATGCTGAGGAGCATGTGG
 GCAACTATGTGACGAGCTCCGCTTCGCCCTAACCCAGACCCGGGAGCTGGAGGAGAGGATCATGGAGCT
 GCATAAGACATATAGGGGATGACCCCGGGAGAAGCAGAAATCCACTTCTTAGAGAATGCCAAGAAGCTT
 TCCATGTACGGAGTAGACCTGCACCATGCCAAGGACTCTGAGGGCATCGACATCATGTTAGGCGTTTGTG
 CCAATGGCCTGCTCATCTACCGGACCGGCTGAGAATCAACCGCTTTGCCTGGCCCAAGATCCTCAAGAT
 CTCCTACAAGAGGAGTAACTTCTATATCAAGATCCGGCTGGGGAGTATGAGCAATTTGAGAGCACAAAT
 GGCTTTAAGCTCCCAAACCACCGGTGAGCAAGAGACTGTGGAAGTCTGCATCGAGCATATACATTCT
 TCCGGCTGGTGTCCCTGAGCCCCACCCAAGGGCTTCTGGTGTGAGGCTCAAGTTCCGGTACCATGG
 GAGGACCCAGGCACAGACTCGCCAGGCCAGCGCCCTATTGACCGGCTGCACCCTTCTTTGAGCGTTCT
 TCCAGCAAACGGTACACCATGTCCCGCAGCCTTGATGGAGCAGAGTTCTCCCGCCAGCCTCGGTACGG
 AGAACCATGATGCAGGGCTGACGGTGACAAGCGGGATGAGGATGGCGAGTCTGGGGGGCAACGGTCAGA
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 AGACACAAGCAGGAGTTCTTAGACAAGCCAGAAGATGTCTTGCTGAAGCACCAGGCCAGCATCAATGAGC
 TCAAAAGGACCTGAAGGAGCCCAACAGCAAATCATCCACCGGATCGAGACTGGGAACGGGAGCGCAG
 GCTGCCCTCCTCCCCGCTCCCCCTCCCCAAGGGCACCCCTGAGAAAGCCAATGAGAGAGCAGGGCTG
 AGGGAGGGCTCCGAGGAGAAAGTCAAACCACACGTCCCCGGGCCCCAGAGAGTGACACAGGCGATGAGG
 ACCAGGACCAGGAGAGGGACACGGTGTTCCTGAAGGACAACCACCTGGCCATTGAGCGCAAGTGCTCCAG
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 CACGGAGACCATATCGACCACCATGGAGAACAGTCTCAAGTCCGGGAAGGGGGCAGCTGCCATGATCCCCA
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 GTTTTCTGAGACAAGGATCGAGAAGCGAATCATCATTACTGGGGATGAAGATGTCGATCAAGACCAGGCC
 CTGGCTTTGGCCATCAAGGAGGCCAAACTGCAGCATCCTGATATGCTGGTAACCAAGCTGTCGTATACA
 GAGAAACAGACCCATCCCAGAGGAGAGGGACAAGAAGCCACAGGAATCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG234991 representing NM_001258329
 Red=Cloning site Green=Tags(s)

MTTETGPDSEVKKAQEEAPQQPEAAAATTPVTPAGHGHPEANSNEKHPSQQDTRPAEQSLDMEEKDYSE
 ADGLSERTTPSKAQKSPQKI AKKYKSAICRVTL DASEYECEVEKHGRGQV LFDLVCEHLN LLEKDYFGL
 TFCDADSQKNWLDPSKEIKKQIRSSPWNFAFTVKFYPPDPAQLTEDITRYYLCLQLRADIITGRLPCSFV
 THALLGSYAVQAE L GDYDAEEHVGNYVSELRFAPNQTREREERIMELHKTYRGMTPGEAEIHFL ENAKKL
 SMYGVDLHHA KDSEGI D IMLGVCANGLLIYRDRLRINRF AWPKILKISYKRSNFYIKIRPGEYEQFESTI
 GFKLPNHRSAKRLWKVCIEHHTFFRLVSPPEPPKGLVMGSKFRYSGRTQAQTRQASALIDRPAPFFERS
 SSKRYTMSRSLDGA EFSRPASVSENHDAGPDGDKRDEDESGGQRSEAE EGEV R TPTKIKELKPEQETTP
 RHKQEF LDKPEDVLLKHQASINELKRTLKEPNSKL IHRDRDWERERRLPSSPASPSPKGTPEKANERAGL
 REGSEEKVKPPRPAPESDTGDEDQDQERD TVFLKDNHLAIERKCSSITVSSTSSLEAEVDFTVIGDYHG
 SAFEDFSRSLPELDRDKSDSDTEGLLFSRDLNKGAPSQDDESGGIEDSPDRGACSTPDMQPFE PVKTETM
 TVSSLAIRKKIEPEAVLQTRVSAMDNTQVDGSASV GREFIATTPSITTETISTTMENSLKSGKGAAMIP
 GPQTVATEIRSLSPIIGKDVLTSTYGATAETLSTSTTHVTKTVKGGFSETRIEKR I IITGDEDVDQDQA
 LALAIKEAKLQHPDMLVTKAVVYRETDP SPEERDKKPQES

TRTRPLE - GFP Tag - V

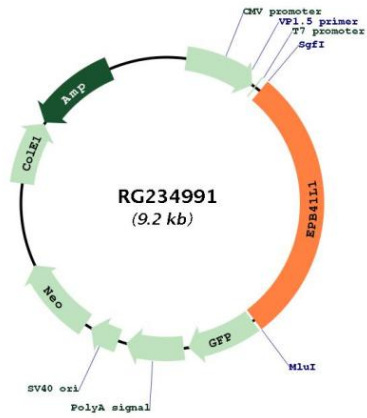
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001258329
ORF Size:	2640 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_001258329.1 , NP_001245258.1
RefSeq Size:	6327 bp
RefSeq ORF:	2643 bp
Locus ID:	2036
UniProt ID:	Q9H4G0
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 RG234991