

## Product datasheet for **RG234742**

### EPB41L1 (NM\_001258330) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EPB41L1 (NM_001258330) 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:**

>RG234742 representing NM\_001258330  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTTTTCTGGGGAGGATCAATGAGGTAGAACCTGCAAAGGGCTTAGCAGAGAGCCTAGCACCTACTG  
 AGCGCTCAGTAAAGAGCCTAGACATGGAGGAGAAGGACTACAGTGAGGCCGATGGCCTTTTCGGAGAGGAC  
 CACGCCAGCAAGGCCAGAAATCGCCCCAGAAGATTGCCAAGAAATACAAGAGTGCCATCTGCCGGGTC  
 ACTCTGCTTATGCTCGGAGTATGAGTGTGAGGTGGAGAAACATGGCCGGGGCCAGGTGCTGTTTGACC  
 TGGTCTGTGAACACCTCAACCTCTAGAGAAGGACTACTTCGGCCTGACCTTCTGTGATGCTGACAGCCA  
 GAAGAAGTGGCTGGACCCCTCCAAGGAGATCAAGAAGCAGATCCGGAGTAGCCCCGGAATTTGCTTC  
 ACAGTCAAGTTCTACCCGCTGATCCTGCCAGCTGACAGAAGACATCACAAGATACTACCTGTGCCTGC  
 AGCTGCGGGCAGACATCATCACGGGCCGCTGCCATGCTCCTTTGTACGCATGCCCTACTGGGCTCCTA  
 CGCTGTGCAGGCTGAGCTGGGTGACTATGATGCTGAGGAGCATGTGGCAACTATGTCAGCGAGCTCCGC  
 TTCGCCCTAACCAGACCCGGGAGCTGGAGGAGAGGATCATGGAGCTGCATAAGACATATAGGGGATGA  
 CCCCAGGAGAAGCAGAAATCCACTTCTTAGAGAATGCCAAGAAGCTTTCATGTACGGAGTAGACCTGCA  
 CCATGCCAAGGACTCTGAGGGCATCGACATCATGTTAGGCGTTTGTGCCAATGGCCTGCTCATCTACCGG  
 GACCGGCTGAGAAATCAACCGCTTTGCTGGCCCAAGATCCTCAAGATCTCCTACAAGAGGAGTAACCTCT  
 ATATCAAGATCCGGCCTGGGGAGTATGAGCAATTTGAGAGCACAATTGGCTTTAAGCTCCCAAACCCCG  
 GTCAGCCAAGAGACTGTGGAAGGTCTGCATCGAGCATCATACATTCTCCGGCTGGTGTCCCCTGAGCCC  
 CCACCAAGGGCTTCTGGTATGGGCTCCAAGTTCGGTACAGTGGGAGGACCCAGGCACAGACTCGCC  
 AGGCCAGCGCCCTCATTGACCGGCTGCACCCTCTTTGAGCGTCTTCCAGCAAACGGTACACCATGTC  
 CCGCAGCCTTGATGGAGCAGAGTTCTCCCGCCAGCCTCGGTACGCGAGAACCATGATGCAGGGCCTGAC  
 GGTGACAAGCGGGATGAGGATGGCGAGTCTGGGGGCAACGGTACAGGGCTGAGGAGGGAGAGGTCAGGA  
 CTCCAACCAAGATCAAGGAGCTAAAGTCTTAGACAAGCCAGAAGATGTCTTGCTGAAGCACCAGGCCAG  
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 CGGGAGCGCAGGCTGCCCTCCTCCCCGCCTCCCCCTCCCCAAGGGCACCCCTGAGAAAGCCAATGAGC  
 CCGTGAAAACAGAAACCATGACTGTCAGCAGTCTGGCCATTAGAAAGAAGATTGAGCCGGAGGCCGTA  
 GCAGACCAGAGTCTCCGCTATGGATAACACCCAGCAGTTGATGGGAGTGCCTCAGTGGGAGGGAGTTC  
 ATAGCAACCACTCCCTCCATCACCACGGAGACCATATCGACCACCATGGAGAACAGTCTCAAGTCCGGGA  
 AGGGGGCAGCTGCCATGATCCCAGGCCACAGACGGTGGCCACGGAAATCCGTTCTTTCTCCGATCAT  
 CGGGAAAGATGTCTCACCAGCACCTACGGCGCCACTGCGGAAACCCCTCTCAACCTCCACCACCACCCAT  
 GTCACCAAACTGTGAAAGGAGGGTTTTCTGAGACAAGGATCGAGAAGCGAATCATCATTACTGGGGATG  
 AAGATGTCGATCAAGACCAGGCCCTGGCTTTGGCCATCAAGGAGGCCAACTGCAGCATCCTGATATGCT  
 GGTAACCAAGCTGTCGTATACAGAGAAACAGACCCATCCCCAGAGGAGAGGGACAAGAAGCCACAGGAA  
 TCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG234742 representing NM\_001258330  
Red=Cloning site Green=Tags(s)

```
MVFLGRINEVEPAKGLAESLAPTERSVKSLDMEEKDYSEADGLSERTTPSKAQKSPQKI AKKYKSAICRV
TLLDASEYECEVEKHGRGQVLFDLVCEHLNLEKDYFGLTFCDADSQKNWLDPSKEIKKQIRSSPWNFAF
TVKFYPPDPAQLTEDITRYLCLQLRADIIITGR LPCSFVTHALLGSYAVQAE LGDYDAEEHVGNVSELR
FAPNQTRLEERIMELHKTYRGMTPGEAEIHFL ENAKKLSMYGVDLHHA KDSEGIDIMLGVCANGLLIYR
DRLRINRF AWPKILKISYKRSNFYIKIRPGEYEQFESTIGFKLPNHRS AKRLWKVCI EHHTFFRLV S PEP
PPKGFLVMGSKFRYSGR TQAQTRQASALIDRPAPFFERS SSKRYTMSRSLDGA EFSRPASVSENHDAGPD
GDKRDEDES GQQRSEAE EGEVRTPTKIKELKFLDKPEDVLLKHQASINELKRTLKEPN SKLIHRDRDWE
RERRLPSSPASPSPKGTPEKANEPVKTETMTVSSLAIRKKIEPEAVLQTRVSAMDNTQQVDGSASV GREF
IATTPSIT TETISTTMENSLKSGKGAAAMIPGPQTVATEIRSLSPIIGKDVLTSTYGATAETLSTSTTT H
VTKTVKGGFSETRIEKRIIITGDEDVDQDQALALAIKEAKLQHPDMLVTKAVVYRETDPSPEERDKK PQE
S
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001258330

**ORF Size:** 2103 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\\_001258330.1](#), [NP\\_001245259.1](#)

**RefSeq Size:** 5745 bp

**RefSeq ORF:** 2106 bp

**Locus ID:** 2036

**UniProt ID:** [Q9H4G0](#)

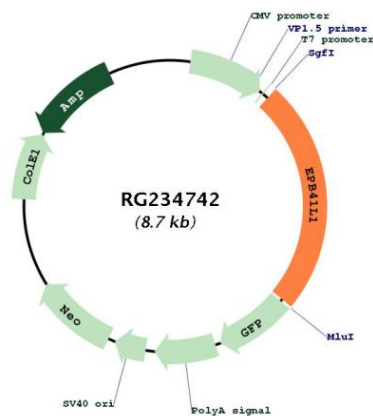
**Cytogenetics:** 20q11.23

**Protein Families:** Druggable Genome

**Protein Pathways:** Tight junction

**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 RG234742