

Product datasheet for **MG217107**

Rpusd2 (NM_173450) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Rpusd2
Synonyms:	4921503C21Rik; 9630001E10; BB231107
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >MG217107 representing NM_173450
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTGGCGGGGTGTCCCGGCTGCCTACGGGACATTGTGCAGTGGCAGGTGGCGCTCTGGTCCCACAGCT
 TTGTCCCGACTTGGGGTAGCTGTGGGAAGGCGATGACTGAGGCACTGTCTGCGCAAGCCGAGGCAGCGGG
 CGGGCTGAAGGCTTTGGTTTCAGCCAATGGAGATGCTGGTAGCAACACGAGCGGAGAGCCGCTCCTGGAG
 CGCCTGGAGCCGGCGCGGTAGGGAAGCAGGTCCCGGAGAGCGGGACCAGGCCAGGGAGGCGAAAGGC
 AGCTCCCGAGCAACGGAGAGCAGACCCAGCTCCAGTCGCCGACTCAGGCAAGAGGAAAAAGCGGAGGGG
 CGCCACTGGGGAACGGGTCTGCGCCCTCCGAAGAAACGGCGCACCGGGGTGAGCTTTAGCGATGAGCAC
 TTCGCAGAGACTACCTACTACTTCGAGGGCGCCTGCGCAAGGTGCGGCCCTATTACTTTGACTTCCAGA
 CCTACTGTAAGGTGCTGGGTGGGCCGAGCTTGTTCACGCTTTCAGCACGAGTTCGATCCAGGCC
 ACTGTCTTACTACGAGGCCGTGTCGGGCGAGGACGCTGCATCTCAACGAGGAACAGTCCAGGACCTC
 AGCATCGTGTCAAGGACAATGATTTCTTTCGGAACACAGTGCACAGACATGAGCCACCAGTCCAGCAG
 AGCCTATCCGCTGCTAGCTGAGAACAACGATGTGGTTGTTATAGACAAGCCGCTCCTCCATTCTGTGCA
 CCCCTGTGGCCGCTTCCGACACAACCGGTATCTTCACTAGGCAAGGAGCACCACCTGAAAGAGCTA
 CACCCACTGCATCGGCTGGACCGCTCACCTCAGGAGTGTCTCATGTTTGCGAAGACAGCTGCAGTCTCG
 AGAAGATCCATGAGCAGTTTCGGGATCGGCAGCTGGAGAAGGAGTATGTATGCCGGGTTGACGGGGAGTT
 CCCTGACAAAGAGGTAATTTGTAAGGAACCCATCTTAGTGGTGTCTTACAAGGTAGGAGTGTCCGTTGT
 GATCCCGGGGCAAGCCTTGTGAGACTATGTTCCAGAGGCTGAGCTACAATGGCCGCTCCAGTGTGGTAC
 AGTGCCGACCACTTACAGTGCACCTACCAGATCCGAGTCCACCTCCAATTCCTGGCCACCCGATTCT
 CAATGACCCCATCTACAATCAACTGCCTGGGTCCTTCTCGAGGCCAGGGTGGCCACATTCCAAAGACA
 GACGAGGAAGTGTCCGAGACCTGTTGCAGAATCAGGCCAAAGAAAGCCTGAGTATGCTAGATCTCT
 GTGAGAGTGACCTGACGCCAGGGCTCATAGACTCGACAGCTCCCTTTCAGAGTTGGCTAAAGACAGCCT
 GGAAGGTTGGCTACAGCAGCCAGAAGATAGATGGAATAGCTGAGGCAGCCCTCAGCATCTGGACACA
 CCAGAGAAGGCAGCTAAAGCAGATGTGACTCAAGAAACAGACCCGCTCTGTGCCGAGTGCCGAGTGTTC
 GACAAGATCCCTTCCCGAGGATCTCGTAATGTTCTGATGCCCTCCGCTATAAAGGGCCAGACTTTGA
 GTACGTCTCACCCATCCAGCCTGGGCACGGGATGACTGGCAAGAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217107 representing NM_173450
 Red=Cloning site Green=Tags(s)

MWRGVPGCLRDIWQVALWSHSFVRTWGSCKAMTEALSAQAEAAAGGLKALVQPNGDAGSNTSGEPLLE
 RLEPAAVGKQVPESGDQAQGGEGQLPSNGEQTPAPVADSGKRKRKRRGATGERVVPPPKRRRTGVFSFDEH
 FAETYYFEGGLRKRVPYDFQTYCKGRWVGRSLLHVFSTEFRSQPLSYEEAAVRAGRLHLNNEPVQDL
 SILVKDNDFLRNTVHRHEPPVTAEPIRLLAENNDVVVIDKPSIPVHPCGRFRHNTVIFILGKEHQLKEL
 HPLHRLDRLTSGVLMFAKTAAYSEKIHQVRDRQLEKEYVCRVAGEFPDKEVICKPEILVVSYKVGVCRV
 DPRGKPCETMFQRLSYNGRSSVVCRLPTGRTHQIRVHLQFLGHPILNDPIYNSTAWGSPRGGGHIPKT
 DEELLRDLVAHQAKESLSMLDLCESDLTPGLIDSTAPSELAKDSLEGLATAAQKIDGIAEAPQHLDL
 PEKAAKADVQETDPLCAECRVLQDPLQDLVMFLHALRYKGPDFEYVSPIPAWARDDWQED

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173450

ORF Size: 1659 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.

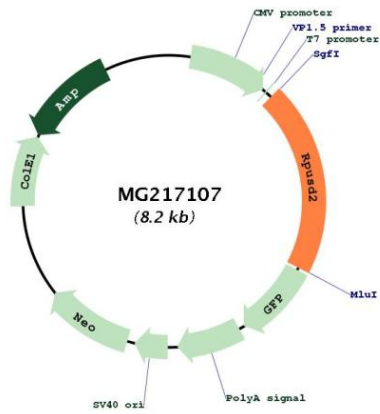
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_173450.3](#), [NP_775626.1](#)

RefSeq Size: 5135 bp

RefSeq ORF: 1662 bp
 Locus ID: 271842
 UniProt ID: [Q149F1](#)
 Cytogenetics: 2 E5

Product images:



Circular map for MG217107