

Product datasheet for **MG210326**

Rhobtb2 (NM_153514) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rhobtb2 (NM_153514) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rhobtb2
Synonyms:	Dbc2; E130206H14Rik; mKIAA0717
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210326 representing NM_153514
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTCTGACATGGATTATGAAAGGCCAAACGTAGAGACCATCAAGTGCCTGGTGGTGGGGACAACG
 CCGTGGGCAAGACTAGGCTCATCTGTGCCCGGGCTGCAATGCCACCCTACCCAGTACCAGTTGCTTGC
 CACCCATGTGCCACAGTGTGGGCCATTGACCAGTATCGTGTGTGCCAGGAGGTGCTAGAACGCTCCCGA
 GATGTGGTAGATGACGTACGCTCTCCCTGCGCCTCTGGGACACCTTCGGAGACCACCACAAAGACCGGC
 GTTTTGTATGGAAGATCCGACGTGGTGGTTTTGTGTTCTCCATCGCCAACCCCAATTCCTCCACCA
 TGTCAAGACCATGTGGTACCCAGAAATCAAGCATTCTGCCCCAGAGCTCCTGTCAATCTGGTGGGCTGC
 CAGCTGGACCTGCGCTATGCTGACCTGGAAGCCGTTAACAGGGCCAGGAGACCTCTGGCTAGGCCATCA
 AGCCCAATGAAATCCTCCCCCAGAGAAGGGTCGGGAAGTCGCCAAGAGCTGGGGATCCCTTACTACGA
 GACCAGTGTGGTGGCCAGTTTGGTATCAAGGACGTCTTTGACAATGCCATTCGGCTGCGCTCATCTCC
 CGCCGCCACCTGCAGTTCTGAAATCACATCTGCGCAATGTGCAGCGCCCTCTACTGCAAGCACCTTCC
 TCCCCCAAGCCACCGCCCCCATCATCGTGGTGCCCGATCCCCCTCCAGCAGCGAGGAGTGCCCCGC
 CCACCTCTGGAAGACCCGCTCTGTGCGGATGTATCCTGGTGTGCAGGAGCGCGTGCGCATCTTTGCC
 CAAAAATCTACCTCTCCACCTCCTCCTCAAATTTCTATGACTTATTCTCATGGACCTGAGTGAGGGGG
 AGCTGGGGGGCCCTCAGGGTCAGGGGGGCCCCGCCAGAGGACCACCGGAGCCACCCTGAACAACACCA
 CCATCATCACCATCACCACCATGGGCGGACTTCTGCTTCGGGCAGCCAGCTTTGACGTATGTGAGAGT
 GTGGATGAGGCCGGCGCTCTGGTCCGGCTGGCCTAAGGGCTTCAACCAGTGACGGGATCTTACGGGGTA
 ATGGAACAGGGTACCTGCCAGGCAGAGGACGTGTGCTTCTTCCGGAGCCGAGCTTTTGTGAGTATCCA
 GGAAGAGATGGCAGAGGATCCTCTGACCTTCAAATCCCCGGCTGATGGTGGTGGTGAAGATGGATAACTCC
 ATTCAGCCGGGGCCCTTCCGGGCTGTTCTCAAGTACCTGTACACAGGGGAGCTAGGTGAGAATGAGCGGG
 ACCTCATGCACATTGCTCACATTGCCGAGCTGCTAGAGGTCTTTGATCTACGAATGATGGTGGCCAACAT
 TCTCAACAACGAAGCCTTCATGAATCAGGAGATCACCAAGGCCTTCCATGTACGCCGGACCAACCGGGT
 AAGGAGTGTGGCAAAGGGCACCTTTTCCAGATGTGACCTTATCCTGGATGATGGGACCATCAGCGCCC
 ATAAGCCCTGCTGATTTCCAGCTGTGACTGGATGGCTGCCATGTTTGGGGGCCATTTGTGGAGAGTTC
 TACCAGGGAGGTGGTGTTCATACACAAGCAAGAGCTGCATGAGAGCTGTGTTGGAGTACCTCTATACA
 GGCATGTTACCTCCAGCCAGACCTGGATGATATGAAGCTCATTGTCTTGGCTAACCGCCTCTGCCTGC
 CGCACTTGGTTGCCCTCACAGAGCAGTACACAGTACTGGACTGATGGAGGCGACCCAGATGATGGTGGGA
 CATCGATGGGGATGTCCTTGTATTCTTGGAAATGGCACAGTTCCTACTGCGCGTACCAGTTGGCCGACTGG
 TGTCTTACCATATCTGCACCAACTACAACAACGTGTGCCGCAAGTTCCTCCAGAGACATGAAGGCTATGT
 CTCCAGAAAACCAGGAGTACTTTGAGAAACACCGGTGGCCGCCAGTCTGGTACCTGAAAGAAGAGGACCA
 CTATCAGCGTGCAGGGAAGGAGCGAGAGAAAGAGGACTATTTACACCTGCGGAGGCGAGCCCAAGCGGCG
 TGGCTGTTTTGGAACAGTCCCTCATCACCGTCTCCTCAGCAGCGGGCTCAGCATCCCCCTCCTCCTCT
 CCTCGGCTGTGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210326 representing NM_153514
 Red=Cloning site Green=Tags(s)

MDSMDYERPNETIKCVVVDNAVKGKTRLCARACNATLTQYQLLATHVPTVWAIQYRVCQEVLEERSR
 DVVDDVSLSRLWDTFGDHHKDRRFAYGRSDVVVLCFSIANPNSLHHVKTMWYPEIKHFPCRPVILVGC
 QLDLRYADLEAVNRARRPLARPIKPNEILPPEKGREVAKELGIPYYETSVAQFGIKDVFDAIRAALIS
 RRHLQFWKSHLRNVQRPLLQAPFLPPKPPPIIVVPDPPSSSEECPAHLLDPLCADVILVLQERVRIFA
 HKIYLSSTSSKFYDLFLMDLSEGELGGPSGGPRPEDHRSHPHQHHHHHHHHHGRDFLLRAASFVDCES
 VDEAGSGPAGLRASTSDGILRGNGTGYPGRGRVLSWSRAFVSIQEEMAEDPLTFKSRLMVVVKMDNS
 IQPGPFRAVLKLYLTGELGENERDLMHIAHIAELLEFDLRMMVANILNNEAFMNQEITKAFHVRRTNRV
 KECLAKGTFSDVTFILDDGTISAHKPLLISSCDWMAAMFGGPFVESSTREVVFPYTSKSCMRVLEYLYT
 GMFTSSPDLDDMKLIVLANRLCLPHLVALTEQYTVTGLMEATQMMVDIDGDVLFLELAQFHCAYQLADW
 CLHHICTNYNNVCRKFPRDMKAMSPENQYEFKHRWPPVWYLKEEDHYQRARKEREKEDYLHLRRQPKRR
 WLFWNSSPSSSAAGSASPSSSSSAVV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153514

ORF Size: 2184 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_153514.5](#), [NP_705734.4](#)

RefSeq Size: 5231 bp

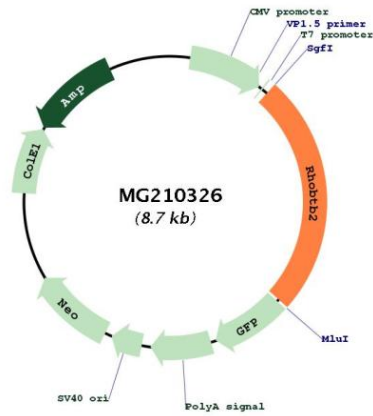
RefSeq ORF: 2187 bp

Locus ID: 246710

UniProt ID: [Q91V93](#)

Cytogenetics: 14 D2

Product images:



Circular map for MG210326