

Product datasheet for **RG234069**

RHBG (NM_001256396) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHBG (NM_001256396) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RHBG
Synonyms:	SLC42A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG234069 representing NM_001256396 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATTTTACTTTCGCTACCCAAAAGAGTCTCACTCTGTTGCCAGGCTGGAGTGCAACGGCGCAATCT
 CGGCTCACTGCAACCTTCACCTCCAGGCTTCCAGGACGTGCATGCCATGGTCTTCGTGGGCTTTGGCTT
 CCTCATGGTCTTCCTGCAGCGTTACGGCTTCAGCAGCGTGGGCTTACCTTCTCCTGGCCGCCTTTGCC
 CTGCAGTGGTCCACACTGGTCCAGGGCTTCTCCACTCCTTCCACGGTGGCCACATCCATGTTGGCGTGG
 AGAGCATGATCAATGCTGACTTTTGTGCGGGGGCGGTGCTCATCTCCTTTGGTGCCGTCTGGGCAAGAC
 CGGGCCTACCCAGCTGCTGCTCATGGCCCTGCTGGAGGTGGTGTGTTTGGCATCAATGAGTTTGTGCTC
 TTTCATCTCCTGGGGGTGAGAGATGCCGGAGGCTCCATGACTATCCACACCTTTGGTGCCTACTTCGGGC
 TCGTCTTTTCGCGGGTCTGTACAGGCCCCAGCTGGAGAAGAGCAAGCACCGCCAGGGCTCCGTCTACCA
 TTCAGACCTCTTCGCCATGATTGGGACCATCTTCTGTGGATCTTCTGGCCTAGCTTCAATGCTGCACTC
 ACAGCGCTGGGGGCTGGGCAGCATCGGACGGCCCTCAACATACTACTCCCTGGCTGCCAGCACCTTG
 GCACCTTTGCCTTGTAGCCCTTGTAGGGGAAGATGGGAGGCTTGACATGGTCCACATCCAAATGCAGC
 GCTGGCTGGAGGGTGTGGTGGGACCTCAAGTGAATGATGCTGACACCTTTGGGGCTCTGGCAGCT
 GGCTTCTTGGCTGGGACTGTCTCACGCTGGGGTACAAGTCTTTCACGCCATCCTTGAATCAAAATTCA
 AAGTCCAAGACACATGTGGAGTCCACAACCTCCATGGGATGCCGGGGTCTGGGGGCCCTCTGGGGGT
 CCTTGTGGCTGGACTTGCCACCCATGAAGCTTACGGAGATGGCCTGGAGAGTGTGTTTCACTCATAGCC
 GAGGGCCAGCGCAGTGCCACGTACAGGCCATGCACAGCTCTTCGGGCTGTTTGTCACTGATGTTTG
 CCTCTGTGGGCGGGGCCCTTGAGGGCTCCTGCTGAAGCTACCCTTTCTGGACTCCCCCAGACTCCCA
 GCACTACGAGGACCAAGTTCACTGGCAGGTGCCTGGCGAGCATGAGGATAAAGCCAGAGACCTCTGAGG
 GTGGAGGAGGCAGACACTCAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


[View online »](#)

Protein Sequence: >RG234069 representing NM_001256396
 Red=Cloning site Green=Tags(s)

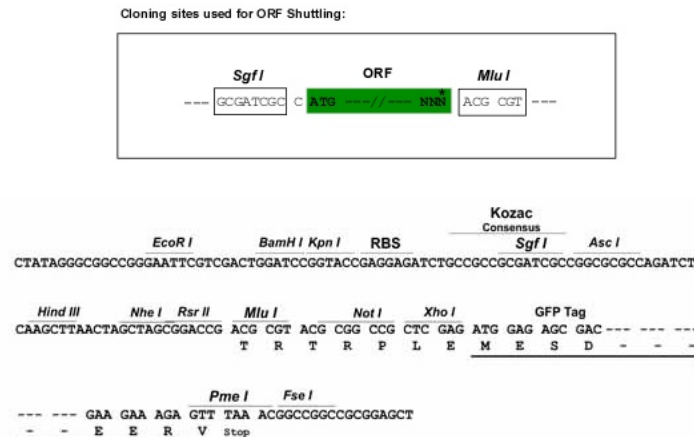
MNFTFATQKSLTLLPRLECNGAISAHCNLHLPGFQDVHAMVVFVGFGLMVFLQRYGFSVSGFTFLAFA
 LQWSTLVQGFLHSFHGGHIHVGVESMINADFCAGAVLISFGAVLGKTGPTQLLLMALLEVVLFGINEFVL
 LHLLGVRDAGGSMTIHTFGAYFGLVLSRVLYRPQLEKSKHRQGSVYHSDLFAMIGTIFLWIFWPSFNAAL
 TALGAGQHRALTNTYYSLAASTLGTALFALSALVGEDGRDLMVHIQNAALAGGVVVGTSSEMMLTPFGALAA
 GFLAGTVSTLGYKFFTPILESKFKVQDTCGVHNLHGMPGVLGALLGVLVAGLATHEAYGDGLESVFPLIA
 EGORSATSQAMHQLFGLFVTLMFASVGGGLGGLLLKLPFLDSPDSQHYEDQVHWQVPGEHEDKAQRPLR
 VEEADTQA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001256396

ORF Size: 1284 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_001256396.2](#)

RefSeq Size: 1891 bp

RefSeq ORF: 1287 bp

Locus ID: 57127

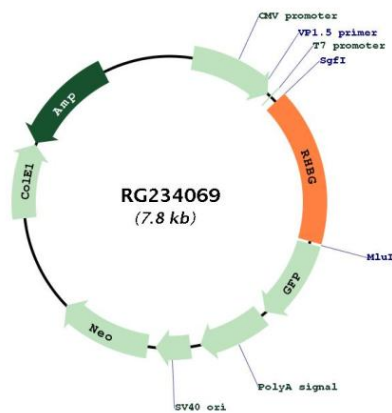
UniProt ID: [Q9H310](#)

Cytogenetics: 1q22

Protein Families: Transmembrane

Gene Summary: This gene encodes one of two non-erythroid members of the Rhesus (Rh) protein family. Non-erythroid Rh protein family members are mainly expressed in the kidney and belong to the methylammonium-ammonium permease/ammonia transporters superfamily. All Rh family proteins are predicted to be transmembrane proteins with 12 membrane spanning domains and intracytoplasmic N- and C-termini. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RG234069