

## Product datasheet for **RG233954**

### **RHBG (NM\_001256395) Human Tagged ORF Clone**

#### Product data:

|                           |                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                          |
| Product Name:             | RHBG (NM_001256395) 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:  | <p>&gt;RG233954 representing NM_001256395</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p> |

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**

ATGGTCTTCGTGGGCTTTGGCTTCCTCATGGTCTTCCTGCAGCGTTACGGCTTCAGCAGCGTGGGCTTCA  
 CCTTCCTCCTGGCCGCTTTGCCCTGCAGTGGTCCACACTGGTCCAGGGCTTTCTCCACTCCTCCACGG  
 TGGCCACATCCATGTTGGCGTGGAGAGCATGATCAATGCTGACTTTTGTGCGGGGCCGTGCTCATCTCC  
 TTTGGTGCCGCTCTGGCAAGACCGGGCTACCCAGCTGCTGCTCATGGCCCTGCTGGAGGTGGTGTGT  
 TTGGCATCAATGAGTTTGTGCTCCTTCATCTCCTGGGGGTGAGAGATGCCGGAGGCTCCATGACTATCCA  
 CACCTTTGGTGCCCTACTTCGGGCTCGTCTTTTCGCGGGTCTGTACAGGCCCCAGCTGGAGAAGAGCAAG  
 CACCGCCAGGGCTCCGTCTACCATTCAGACCTCTTCGCCATGATTGGGACCATCTTCCTGTGGATCTTCT  
 GGCTAGCTTCAATGCTGCACTCACAGCGCTGGGGGTGGGCAGCATCGGACGGCCCTCAACACATACTA  
 CTCCCTGGCTGCCAGCACCTTTGGCACCTTTGCCCTGTGAGCCCTGTAGGGGAAGATGGGAGGCTTGAC  
 ATGGTCCACATCCAAATGCAGCGCTGGCTGGAGGGTTGTGGTGGGACCTCAAGTGAATGATGCTGA  
 CACCTTTGGGGCTCTGGCAGCTGGCTTCTTGGCTGGGACTGTCTCCACGCTGGGTACAAGTTCTTCAC  
 GCCCATCCTTGAATCAAAATCAAAGTCCAAGACACATGTGGAGTCCACAACCTCCATGGGATGCCGGGG  
 GTCCTGGGGGCCCTCTGGGGTCTTGTGGCTGGACTTGCCACCATGAAGCTTACGGAGATGGCCTGG  
 AGAGTGTGTTTCACTCATAGCCGAGGGCCAGCGCAGTGCCACGTACAGGCCATGCACCAGCTCTTCGG  
 GCTGTTTGTCACTGATGTTTGCCTCTGTGGCGGGGGCCTTGGAGGGCTCCTGCTGAAGCTACCTTT  
 CTGGACTCCCCCAGACTCCCAGCACTACGAGGACCAAGTTCACTGGCAGGTGCCTGGCGAGCATGAGG  
 ATAAGCCAGAGACCTCTGAGGTGGAGGAGGCAGACACTCAGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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**Protein Sequence:** >RG233954 representing NM\_001256395  
 Red=Cloning site Green=Tags(s)

MVFGVGFGLMVFLQRYGFSSVGFTFLLAAFALQWSTLVQGFLLHSFHGGHIHVGVESMINADFCAGAVLIS  
 FGAVLKGKTGPTQLLLMALLEVVLFGINEFVLLHLLGVRDAGGSMTIHTFGAYFGLVLSRVLYRPQLEKSK  
 HRQGSVYHSDLFAMIGTIFLWIFWPSFNAALTALGAGQHRTALNTYYSLAASTLGTALFALVGEDGRLD  
 MVHIQNAALAGGVVVGTSSEMMLTPFGALAAGFLAGTVSTLGYKFFTPILESKFKVQDTCGVHNLHGMPG  
 VLGALLGVLVAGLATHEAYGDLESVFPLIAEGQRSATSQAMHQLFGLFVTLMFASVGGGLGGLLLKLFP  
 LDSPDSSQHYEDQVHWQVPGEHEDKAQRPLRVEEADTQA

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001256395

**ORF Size:** 1167 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\\_001256395.2](#)

**RefSeq Size:** 1941 bp

**RefSeq ORF:** 1170 bp

**Locus ID:** 57127

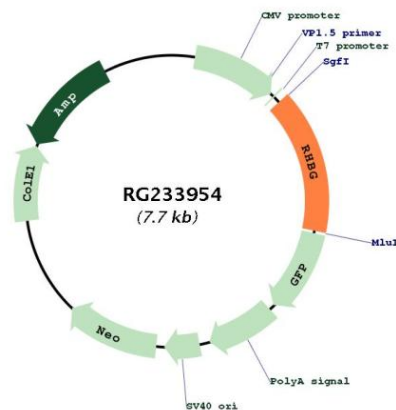
**UniProt ID:** [Q9H310](#)

**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 RG233954