

Product datasheet for **RG203132**

RHAG (NM_000324) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHAG (NM_000324) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RHAG
Synonyms:	CD241; OHS; OHST; RH2; Rh50; RH50A; Rh50GP; RHNR; SLC42A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203132 representing NM_000324 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGTTACATTCCCTCTCATGGCTATAGTCCTGGAAATTGCCATGATTGTTTTATTTGGATTATTTG
 TTGAGTATGAAACGACCAGACTGTTCTCGAGCAGCTCAACATCACCAAGCCAACAGACATGGGCATATT
 CTTTGAGTTATATCCTCTGTTCCAAGATGTACATGTTATGATATTTGTTGGGTTTGGCTTCCTCATGACC
 TTCCTGAAGAAATATGGCTTCAGCAGTGTGGGTATCAACCTACTCGTTGCTGCTTTGGGCCTCCAGTGGG
 GCACTATTGTACAGGGAACCTGCAAAGCCAGGGACAGAAATTTAACATTGGAATCAAAAACATGATAAA
 TGCAGACTTCAGTGCAGCCACAGTTCTGATATCTTTTGGAGCTGTCTGGGAAAAACGAGCCCCACCCAA
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 AGGCCTCTGACATTGGAGCATCAATGACGATCCATGCCTTTGGGGCCTACTTTGGCTTGGCTGTAGCAGG
 CATCTTGATCGATCTGGACTGAGAAAGGGCGTGAAATGAAGAGTCCGCATACTACTCAGACTTGTTT
 GCAATGATTGGGACTCTCTTCTGTGGATGTTTTGGCCAGCTTTAACTCGGCCATTGCTGAACCTGGAG
 ACAAACAGTGCAGGGCCATTGTAAACACGTACTTCTCTCGTCGCTGTGTGCTCACAGCCTTTGCCTT
 CTCCAGCCTAGTGGAGCACCGAGGCAAGCTCAACATGGTTCACATTGAGAATGCCACCCTTGCTGGAGGA
 GTTGCTGTGGGCACTTGTGCGGATATGGCAATCACCCATTTGGTCTATGATTATTGGGAGCATTGCAG
 GAATGGTCTCTGTGCTTGGATACAAGTTCTGACTCCACTTTTTACTACTAAACTGAGGATCCATGATAC
 ATGTGGGGTCCATAACCTCCACGGCTTACCTGGTGTAGTGGGAGGCTTGCAGGCATTGTGGCAGTAGCA
 ATGGGCGCCTCCAACACGTCTATGGCCATGCAGGCAGTGCAGTGGGTTCTCTATCGGAACAGCAGTTG
 TTGGAGGTCTGATGACAGGTTTAATTCTAAAGTTGCCTCTCTGGGGACAGCCATCTGACCAGAACTGCTA
 TGATGATTCTGTTTATTGGAAGTCCCTAAGACGAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203132 representing NM_000324
 Red=Cloning site Green=Tags(s)

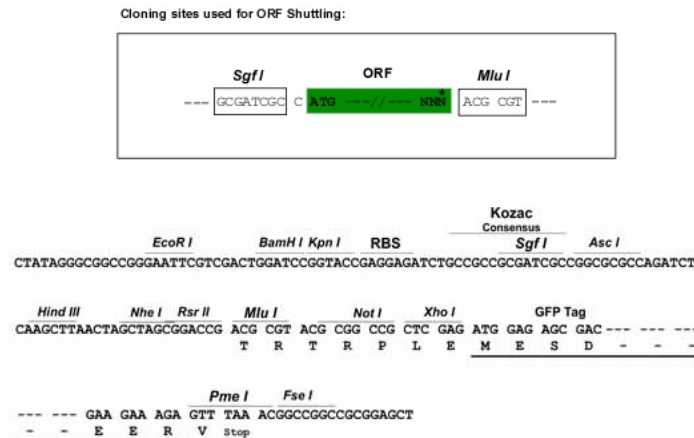
MRFTFPLMAIVLEIAMIVLFGLFVEYETDQTVLEQLNITKPTDMGIFFELYPLFQDVHVMIFVGFGLMT
 FLKKYGFSSVGINLLVAALGLQWGTIVQGLQSQGQKFNIGIKNMINADFSAATVLISFGAVLGKTSPTQ
 MLIMTILEIVFFAHNEYLVSEIFKASDIGASMTIHAFGAYFGLAVAGILYRSLRKGRENEESAYYSDF
 AMIGTLFLWMFWPSFNSAIAEPGDKQCRAIVNTYFSLAACVLTAFSSSLVEHRGKLNMVHIQNATLAGG
 VAVGTCADMAIHPFGSMIIGSIAGMVSVLGYKFLTPLFTTKLRIHDTGCVHNLHGLPGVVGGLAGIVAVA
 MGASNTSMAMQAAALGSSIGTAVVGGLMTGLILKLPLWGQPSDQNCYDDSVYWKVPKTR

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_000324

ORF Size: 1227 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_000324.1](#), [NP_000315.1](#)

RefSeq Size: 1927 bp

RefSeq ORF: 1230 bp

Locus ID: 6005

UniProt ID: [Q02094](#)

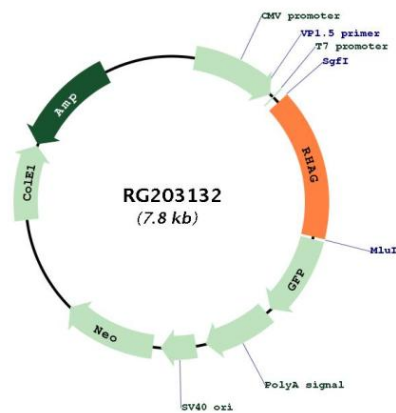
Cytogenetics: 6p12.3

Domains: Ammonium_transp

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The protein encoded by this gene is erythrocyte-specific and is thought to be part of a membrane channel that transports ammonium and carbon dioxide across the blood cell membrane. The encoded protein appears to interact with Rh blood group antigens and Rh30 polypeptides. Defects in this gene are a cause of regulator type Rh-null hemolytic anemia (RHN), or Rh-deficiency syndrome.[provided by RefSeq, Mar 2009]

Product images:



Circular map for RG203132