

Product datasheet for **RC203132**

RHAG (NM_000324) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHAG (NM_000324) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RHAG
Synonyms:	CD241; OHS; OHST; RH2; Rh50; RH50A; Rh50GP; RHNR; SLC42A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203132 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGTTACATTCCCTCTCATGGCTATAGTCCTGGAAATTGCCATGATTGTTTTATTTGGATTATTTG
 TTGAGTATGAAACGACCAGACTGTTCTCGAGCAGCTCAACATCACCAGCCAACAGACATGGGCATATT
 CTTTGAGTTATATCCTCTGTTCCAAGATGTACATGTTATGATATTTGTTGGGTTTGGCTTCCTCATGACC
 TTCCTGAAGAAATATGGCTTCAGCAGTGTGGGTATCAACCTACTCGTTGCTGCTTTGGGCCTCCAGTGGG
 GCACTATTGTACAGGGAACCTGCAAAGCCAGGGACAGAAATTTAACATTGGAATCAAAAACATGATAAA
 TGCAGACTTCAGTGCAGCCACAGTTCTGATATCTTTTGGAGCTGTCTGGGAAAAACGAGCCCCACCCAA
 ATGCTGATCATGACAATTTAGAAATTGTTTTCTTTGCCACAATGAATACCTGGTTAGTGAAATATTTA
 AGGCCTCTGACATTGGAGCATCAATGACGATCCATGCCTTTGGGGCTACTTTGGCTTGGCTGTAGCAGG
 CATCTTGATCGATCTGGACTGAGAAAGGGCGTGAAATGAAGAGTCCGCATACTACTCAGACTTGTTT
 GCAATGATTGGGACTCTCTTCTGTGGATGTTTGGCCAGCTTTAACTCGGCCATTGCTGAACCTGGAG
 ACAACAGTGCAGGGCATTGTAAACACGTAATCTCTCTCGTCGCTGTGTGCTCACAGCCTTTGCCTT
 CTCCAGCCTAGTGGAGCACCGAGGCAAGCTCAACATGGTTCACATTGAGAATGCCACCCTTGCTGGAGGA
 GTTGCTGTGGGCACTTGTGCGGATATGGCAATTCACCATTTGGTTCTATGATTATTGGGAGCATTGCAG
 GAATGGTCTCTGTGCTTGGATACAAGTTCTGACTCCACTTTTTACTACTAAACTGAGGATCCATGATAC
 ATGTGGGGTCCATAACCTCCACGGCTTACCTGGTGTAGTGGGAGGCTTGCAGGCATTGTGGCAGTAGCA
 ATGGGCGCCTCCAACACGTCTATGGCCATGCAGGCAGTGCAGTGGGTTCTCTATCGGAACAGCAGTTG
 TTGGAGGTCTGATGACAGGTTTAATTCTAAAGTTGCCTCTCTGGGGACAGCCATCTGACCAGAACTGCTA
 TGATGATTCTGTTTATTGGAAGTCCCTAAGACGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC203132 protein sequence
 Red=Cloning site Green=Tags(s)

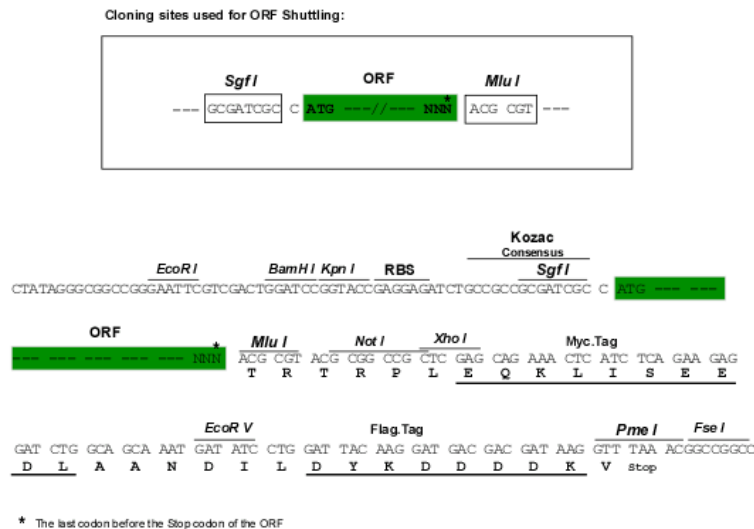
MRFTFPLMAIVLEIAMIVLFGLFVEYETDQTVLEQLNITKPTDMGIFFELYPLFQDVHVMIFVGFGLMT
 FLKKYGFSSVGINLLVAALGLQWGTIVQGLQSQGQKFNIGIKNMINADFSATVLISFGAVLGKTSPTQ
 MLIMTILEIVFFAHNEYLVSEIFKASDIGASMTIHAFGAYFGLAVAGILYRSLRGKRENEESAYYSDLF
 AMIGTLFLWMFWPSFNSAIAEPGDKQCRRAIVNTYFSLAACVLTAFAFSSLVEHRGKLNMVHIQNATLAGG
 VAVGTCADMAIHPFGSMIIGSIAGMVSVLGYKFLTPLFTTKLRIHDTCGVHNLHGLPGVVGGLAGIVAVA
 MGASNTSMAMQAAALGSSIGTAVVGGLMTGLILKLPLWGQPSDQNCYDDSVYWKVPKTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6153_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000324

ORF Size: 1227 bp

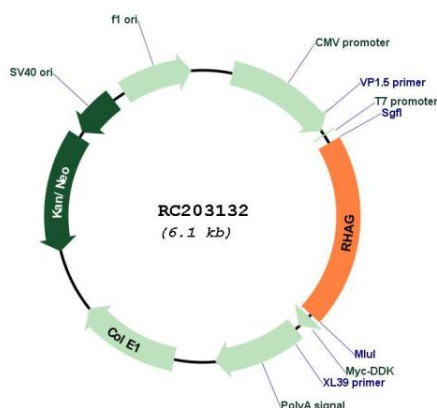
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

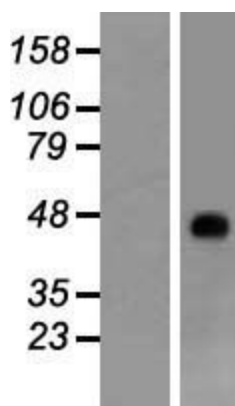
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_000324.3</u>
RefSeq Size:	1953 bp
RefSeq ORF:	1230 bp
Locus ID:	6005
UniProt ID:	<u>Q02094</u>
Cytogenetics:	6p12.3
Domains:	Ammonium_transp
Protein Families:	Druggable Genome, Transmembrane
MW:	44.2 kDa
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 RC203132



Western blot validation of overexpression lysate (Cat# [LY424797]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203132 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).