

Product datasheet for **RG238551**

RHD (NM_001282871) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | RHD (NM_001282871) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | RHD |
| Synonyms: | CD240D; DIIIc; RH; Rh4; RH30; RHCED; RhDCw; RHDel; RHDVA(TT); RhII; RhK562-II; RhPI; RHPII; RHXIII |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG238551 representing NM_001282871.
 Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
 ATGAGCTCTAAGTACCCGCGGTCTGTCGGGCGCTGCCTGCCCTCTGGGCCCTAACACTGGAAGCAGCT
 CTCATTCTCCTTCTATTTTTTTACCCACTATGACGCTTCCTTAGAGGATCAAAAGGGGCTCGTGCA
 TCCTATCAAGTTGGCCAAGATCTGACCGTGATGGCGGCCATTGGCTTGGGCTTCCTCACCTCGAGTTTC
 CGGAGACACAGCTGGAGCAGTGTGGCCTTCAACCTCTTCATGCTGGCGCTTGGTGTGCACTGGGCAATC
 CTGCTGGACGGCTTCCTGAGCCAGTTCCTTCTGGGAAGGTGGTCATCACACTGTTCACTATTTCGGCTG
 GCCACCATGAGTGCTTTGTCGGTGTGATCTCAGTGGATGCTGTCTTGGGGAAGGTCAACTGGCGCAG
 TTGGTGGTGTGGTGTGGTGGAGGTGACAGCTTAGGCAACCTGAGGATGGTCATCAGTAATATCTTC
 AACACAGACTACCACATGAACATGATGCACATCTACGTGTTCCGACGCTATTTTGGGCTGTCTGTGGCC
 TGGTGCCTGCCAAAGCCTCTACCCGAGGGAACGGAGGATAAAGATCAGACAGCAACGATACCCAGTTTG
 TCTGCCATGCTGGGCGCCCTCTTCTGTGGATGTTCTGGCCAAGTTTCAACTCTGCTCTGCTGAGAAGT
 CCAATCGAAAGGAAGAATGCCGTGTTCAACACCTACTATGCTGTAGCAGTCAGCGTGGTGCAGCCATC
 TCAGGGTCATCCTTGGCTCACCCCAAGGGAAGATCAGCAAGACTTATGTGCACAGTGGCGTGTGGCA
 GGAGGCGTGGCTGTGGGTACCTCGTGTACCTGATCCCTTCTCCGTGGCTTGGCATGGTGTGGTCTT
 GTGGCTGGGTGATCTCCGTCCGGGGAGCCAAGTACCTGCCGGGTGTTGTAACCGAGTGTGGGGATT
 CCCACAGCTCCATCATGGGCTACAACCTCAGCTTGTGGGTCTGCTTGGAGAGATCATCTACATTGTG
 CTGCTGGTGTGATACCGTCCGAGCCGCAATGGCATGCACTCGGCTGGAACCTGGCTGTAAAAATG
 GCTAAGCAGGTGATGAGGAGCTGATGCGTTTGGACGTGTCTCAGAGAAATCATGGAGGCGCTGCGGTT
 CCTACCGGTTCTTGGATGCCTTCTACAGAGACAACCATAGCCCCAAATTATAGGGATCACATACAGTG
 GTTTCCTCATTTGGCTGTTGGATTTTAAGCAAAAAGCATCCAAGAAAAACAAGGCCTGTTCAAAAACAAG
 ACAACTTCTCTCACTGTTGCCTGCATTTGTACGTGAGAAACGCTCATGACAGCAAAAGTCTCCAATGTT
 CGCGCAGGCACTGGAGTCAGAGAAAATGGAGTTGAATCCTTTCTCTGCCACTCTTTGAGGAGAATCTCA
 CCATTTATTATGCACTGTAGAATAACAACA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG238551
 Blue=ORF Red=Cloning site Green=Tag(s)

MSSKYPRSVRRCLPLWALTLEALILLFYFFTHYDASLEDQKGLVASYQVGQDLTVMAAIGLGFLTSSF
 RRHSWSSVAFNLFMLALGVQWAILLDGFLSQFSPGKVVITLFSIRLATMSALSVLISVDAVLGKVNLAQ
 LVVMVLVEVTALGNLRMVISNIFNTDYHMNMHIYVFAAYFGLSVAWCLPKPLPEGTEDKDQTATIPSL
 SAMLGALFLWMFWPSFNSALLRSPIERKNAVFNTYYAVAVSVVTAISGSSLAHPQKISKTYVHSAVLA
 GGAVVGTSCHLIPSPWLAMVLGLVAGLISVGGAKYLPGCCNRVLGIPHSSIMGYNFSLLGLLGEIYIV
 LLVLDTVGAGNGMSLGNLAVKMAEAGDEELMRLDVSQRNHGAAVPTGSWMPSTETIAPNYRDHISV
 VSSFGCWILSKSIQEKQGLFKNKTTSSHCLHLVYRNAHDSKVS NVRAAGTGVRENGVESFLCHSLRRIS
 PFIMHCRIQQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001282871

ORF Size: 1479 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).

RefSeq: [NM_001282871.2](#)

RefSeq Size: 2853 bp

RefSeq ORF: 1482 bp

Locus ID: 6007

UniProt ID: [Q02161](#)

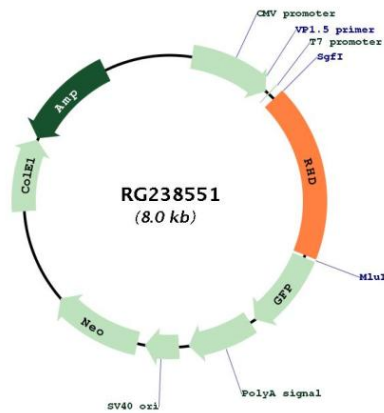
Cytogenetics: 1p36.11

Protein Families: Transmembrane

MW: 54.1 kDa

Gene Summary:

The Rh blood group system is the second most clinically significant of the blood groups, second only to ABO. It is also the most polymorphic of the blood groups, with variations due to deletions, gene conversions, and missense mutations. The Rh blood group includes this gene, which encodes the RhD protein, and a second gene that encodes both the RhC and RhE antigens on a single polypeptide. The two genes, and a third unrelated gene, are found in a cluster on chromosome 1. The classification of Rh-positive and Rh-negative individuals is determined by the presence or absence of the highly immunogenic RhD protein on the surface of erythrocytes. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG238551