

## Product datasheet for **RG238384**

### **RHD (NM\_001282870) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RHD (NM_001282870) 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:**

>RG238384 representing NM\_001282870.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAGCTCTAAGTACCCGCGGTCTGTCCGGCGCTGCCTGCCCTCTGGGCCCTAACACTGGAAGCAGCT
CTCATTCTCCTCTTCTATTTTTTTACCCACTATGACGCTTCCTTAGAGGATCAAAAGGGGCTCGTGGA
TCCTATCAAGTTGGCCAAGATCTGACCGTGATGGCGGCCATTGGCTTGGGCTTCCTCACCTCGAGTTTC
CGGAGACACAGCTGGAGCAGTGTGGCCTTCAACCTCTTCATGCTGGCGCTTGGTGTGCACTGGGCAATC
CTGCTGGACGGCTTCCTGAGCCAGTTCCTTCTGGGAAGGTGGTCATCACACTGTTCACTATTTCGGCTG
GCCACCATGAGTGCTTTGTCCGTGCTGATCTCAGTGGATGCTGTCTTGGGAAGGTCAACTGGCGCAG
TTGGTGGTGTGGTGTGGTGGAGGTGACAGCTTAGGCAACCTGAGGATGGTCATCAGTAATATCTTC
AACACAGACTACCACATGAACATGATGCACATCTACGTGTTCCGACGCTATTTGGGCTGTCTGTGGCC
TGGTGCCTGCCAAAGCCTCTACCGAGGGAACGGAGGATAAAGATCAGACAGCAACGATACCCAGTTTG
TCTGCCATGCTGGCGCCCTCTTCTGTGGATGTTCTGGCCAAGTTTCAACTCTGCTCTGCTGAGAAGT
CCAATCGAAAGGAAGAATGCCGTGTTCAACACCTACTATGCTGTAGCAGTCAGCGTGGTGCAGCCATC
TCAGGGTCATCCTTGGCTCACCCCAAGGGAAGATCAGCAAGACTTATGTGCACAGTGGCGTGTGGCA
GGAGGCGTGGCTGTGGGTACCTCGTGTCACCTGATCCCTTCTCCGTGGCTTGGCATGGTGTGGTCTT
GTGGCTGGGTGATCTCCGTCCGGGGAGCCAAGTACCTGCCGGGTGTTGTAACCGAGTGTGGGGATT
CCCCACAGCTCCATCATGGGCTACAACCTCAGCTTGTGGGTCTGCTGGAGAGATCATCTACATTGTG
CTGCTGGTGTGATACCGTCGGAGCCGGCAATGGCATGATTGGCTTCCAGGTCTCCTCAGCATTGGG
GAACTCAGCTGGCCATCGTATAGCTCTCAGCTCTGGTCTCCTGACAGTTTCTCATTTGGCTGTTGG
ATTTTAAGCAAAAGCATCCAAGAAAAACAAGCCTGTTCAAAAACAAGACAACCTCCTCACTGTTGC
CTGCATTTGTACGTGAGAAACGCTCATGACAGCAAGTCTCCAATGTTCCGCGCAGGCACTGGAGTACA
GAAAATGGAGTTGAATCCTTTCTCTGCCACTCTTTGAGGAGAATCTACCATTTATTATGCACTGTAGA
ATACAACAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
```

**Protein Sequence:**

>Peptide sequence encoded by RG238384  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MSSKYPRSVRRLPLWALTLEAALILLFYFFTHYDASLEDQKGLVASYQVGQDLVMAAIGLGFLTSSF
RRHSWSSVAFNLFMLALGVQWAILLDGFLSQFPSSGKVVITLFSIRLATMSALSVLISVDAVLGKVNLAQ
LVVMVLVEVTALGNLRMVISNIFNTDYHMNMHIYVFAAYFGLSVAWCLPKPLPEGTEKDQTATIPSL
SAMLGALFLWMFWPSFNALLRSPIERKNAVFNTYYAVAVSVVTAISGSSLAHPQKISKTYVHSAVLA
GGVAVGTSCHLIPSPWLAMVLGLVAGLISVGGAKYLPGCCNRVLGIPHSSIMGYNFSLLGLLGEIYIV
LLVLDTVGAGNGMIGFQVLLSIGELSLAIVIALTSGLLTVSSFGCWILSKSIQEKQGLFKNKTTSSHCC
LHLYVRNAHDSKYSNVRAGTGVRENGVESFLCHSLRRISPFIMHCRIQQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

**Restriction Sites:**

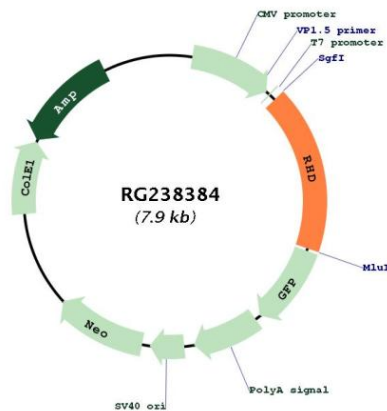
SgfI-MluI

**Cloning Scheme:**


- ACCN:** NM\_001282870
- ORF Size:** 1389 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\\_001282870.1](#), [NP\\_001269799.1](#)
- RefSeq Size:** 2763 bp
- RefSeq ORF:** 1392 bp
- Locus ID:** 6007
- Cytogenetics:** 1p36.11
- Protein Families:** Transmembrane
- MW:** 50.7 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 RG238384