

## Product datasheet for **RG220547**

### **RHD (NM\_016124) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RHD (NM_016124) 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:**

>RG220547 representing NM\_016124  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCTCTAAGTACCCGCGGTCTGTCCGCGCTGCCTGCCCTCTGGGCCCTAACACTGGAAGCAGCTC  
 TCATTCTCCTCTTCTATTTTTTACCACCTATGACGCTTCCTTAGAGGATCAAAAGGGGCTCGTGGCATC  
 CTATCAAGTTGGCCAAGATCTGACCGTGATGGCGCCATTGGCTTGGGCTTCTCACCTCGAGTTTCCGG  
 AGACACAGCTGGAGCAGTGTGGCCTTCAACCTTTCATGCTGGCCTTGGTGTGCAGTGGCAATCCTGC  
 TGGACGGCTTCTGAGCCAGTTCCTTCTGGGAAGGTGGTCATCACACTGTTTCACTATTTCGGCTGGCCAC  
 CATGAGTGCTTTGTGGTGTGATCTCAGTGGATGCTGTCTTGGGAAGGTCAACTTGGCGCAGTTGGT  
 GTGATGGTGTGGTGGAGGTGACAGCTTAGGCAACCTGAGGATGGTCATCAGTAATATCTTCAACACAG  
 ACTACCACATGAACATGATGCACATCTACGTGTTTCGCAGCCTATTTGGGCTGTCTGTGGCTGGTGCCT  
 GCCAAAGCCTCTACCCGAGGGAACGGAGGATAAAGATCAGACAGCAACGATACCCAGTTTGTCTGCCATG  
 CTGGGCGCCCTCTTCTTGTGGATGTTCTGGCCAAGTTTCAACTCTGCTCTGCTGAGAAGTCCAATCGAAA  
 GGAAGAATGCCGTGTTCAACACCTACTATGCTGTAGCAGTCAGCGTGGTACAGCATCTCAGGGTCATC  
 CTTGGCTACCCCAAGGGAAGATCAGCAAGACTTATGTGCACAGTCCGGTGGTGGCAGGAGGCGTGGCT  
 GTGGGTACCTCGTGTACCTGATCCCTTCTCCGTGGCTTGCCATGGTGTGGTCTTGTGGCTGGGCTGA  
 TCTCCGTGGGGGAGCCAAGTACCTGCCGGGTGTTGTAACCGAGTGTGGGGATCCCCACAGCTCCAT  
 CATGGGCTACAACCTCAGCTTGTGGTCTGCTGGAGAGATCATCTACATTGTGCTGTGGTGTGCTTGTG  
 ACCGTGGAGCCGCAATGGCATGATTGGCTTCCAGGTCTCCTCAGCATTGGGGAACCTCAGCTTGGCCA  
 TCGTGTAGCTCTCAGTCTGGTCTCCTGACAGGTTTGTCTCTAAATCTTAAAATATGAAAGCACCTCA  
 TGAGGCTAAATATTTTGTGATGACCAAGTTTCTGGAAGTTTCTCCTCATTTGGCTGTTGGATTT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG220547 representing NM\_016124  
 Red=Cloning site Green=Tags(s)

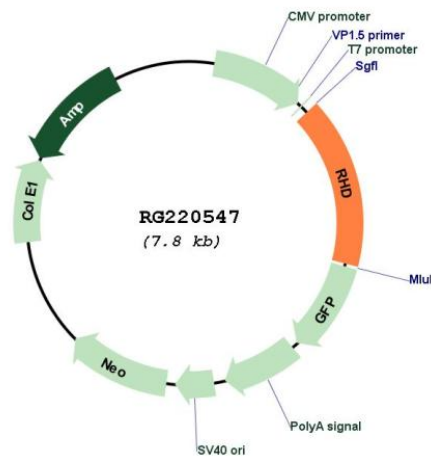
MSSKYPRSVRRCLPLWALTLEAALILLFYFFTHYDASLEDQKGLVASVYQVQDLTVMAAIGLGLTSSFR  
 RHSWSSVAFNLFMLALGVQWAILLDGFLSQFPSGKVVITLFSIRLATMSALSVLISVDAVLGKVNLAQLV  
 VMVLVEVTALGNLRMVISNIFNTDYHMNMHIYVFAAYFGLSVAWCLPKPLPEGTEKDQTATIPLSAM  
 LGALFLWMFWPFSALLRSPIERKNAVFNTYYAVAVSVVTAISGSSLAHPQGKISKTYVHSAVLAGGVA  
 VGTSCHLIPSPWLAMVLGLVAGLISVGGAKYLPGCCNRVLGIPHSSIMGYNFSLLGLLGEIYIVLLVLD  
 TVGAGNGMIGFQVLLSIGELSLAIVIALTSGLLTGLLLNKIKWKAPHEAKYFDDQVFWKFPHLAVGF

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_016124

**ORF Size:** 1251 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\\_016124.4](#)

**RefSeq Size:** 2709 bp

**RefSeq ORF:** 1254 bp

**Locus ID:** 6007

**UniProt ID:** [Q02161](#)

**Cytogenetics:** 1p36.11

**Domains:** Ammonium\_transp

**Protein Families:** Transmembrane

**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]