

## Product datasheet for **RC238191**

### **RHD (NM\_001282872) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RHD (NM_001282872) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RHD
Synonyms:	CD240D; DIIIc; RH; Rh4; RH30; RHCED; RhDCw; RHDel; RHDVA(TT); RhII; RhK562-II; RhPI; RHPII; RHXIII
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238191 representing NM\_001282872  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCTCTAAGTACCCGCGGTCTGTCCGCGCTGCCTGCCCTCTGGGCCCTAACACTGGAAGCAGCTC  
 TCATTCTCCTCTCTATTTTTTTACCCACTATGACGCTTCCTTAGAGGATCAAAAGGGGCTCGTGGCATC  
 CTATCAAGTTGGCCAAGATCTGACCGTGATGGCGGCCATTGGCTTGGGCTTCTCACCTCGAGTTTCCGG  
 AGACACAGCTGGAGCAGTGTGGCCTTCAACCTTTCATGCTGGCCTTGGTGTGCAGTGGCAATCCTGC  
 TGGACGGCTTCTGAGCCAGTTCCTTCTGGGAAGGTGGTCATCACACTGTTTCACTATTTCGGCTGGCCAC  
 CATGAGTGCTTTGTGGTGTGATCTCAGTGGATGCTGTCTTGGGAAGGTCAACTTGGCGCAGTTGGTG  
 GTGATGGTGTGGTGGAGGTGACAGCTTAGGCAACCTGAGGATGGTCATCAGTAATATCTTCAACACAG  
 ACTACCACATGAACATGATGCACATCTACGTGTTTCGCAGCCTATTTGGGCTGTCTGTGGCTGGTGCCT  
 GCCAAAGCCTCTACCGAGGGAAACGGAGGATAAAGATCAGACAGCAACGATACCCAGTTTGTCTGCCATG  
 CTGGGCGCCCTCTTCTTGTGGATGTTCTGGCCAAGTTTCAACTCTGCTCTGCTGAGAAGTCCAATCGAAA  
 GGAAGAATGCCGTGTTCAACACCTACTATGCTGTAGCAGTCAGCGTGGTACAGCCATCTCAGGGTCATC  
 CTTGGCTCACCCCAAGGGAAGATCAGCAAGACTTATGTGCACAGTGGGTGTTGGCAGGAGGCGTGGCT  
 GTGGGTACCTCGTGTACCTGATCCCTTCTCCGTGGCTTGCCATGGTGTGGGTCTTGTGGCTGGGCTGA  
 TCTCCGTGGGGGAGCCAAGTACCTGCCGGGTGTTGTAACCGAGTGTGGGGATCCCCACAGCTCCAT  
 CATGGGCTACAATTGAGCTTGTGGTCTGCTGGAGAGATCATCTACATTGTGCTGTGGTGTGCTTGTGAT  
 ACCGTGGAGCCGCAATGGCATGTCACTCGGCTGGAACCTGGCTGTAAAAATGGCTGAAGCAGGTGATG  
 AGGAGCTGATGCGTTTGGACGTGTCTCAGAGAAATCATGGAGGCGCTGCGGTTTCTACCGTTTCTGGAT  
 GCCTTCTACAGAGACAACCATAGCCCCAAATTATAGGGATCACATATCAGTGGGATTGGCTTCCAGGTCC  
 TCCTCAGCATTGGGAACTCAGCTTGGCCATCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238191 representing NM\_001282872  
 Red=Cloning site Green=Tags(s)

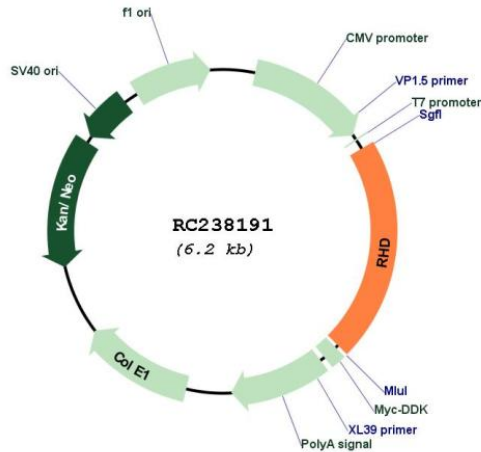
MSSKYPRSVRRCPLWALTLEAALILLFYFFTHYDASLEDQKGLVASVYQVQDLTVMAAIGLGLTSSFR  
 RHSWSSVAFNLFMLALGVQWAILLDGFLSQFPSPGKVVITLFSIRLATMSALSVLISVDAVLGKVNLAQLV  
 VMVLVEVTALGNLRMVISNIFNTDYHMNMHIYVFAAYFGLSVAVCLPKPLPEGTEKDKQTATIPSLSAM  
 LGALFLWMFSPFNSALLRSPIERKNAVFNTYYAVAVSVVTAISGSSLAHPQGIKSKTYVHSAVLGGVA  
 VGTSCHLIPSPWLAMVGLVAGLISVGGAKYLPGCCNRVLGIPHSSIMGYNFSLGLLGEIYIIVLLVLD  
 TVGAGNGMSLGNLAVKMAEAGDEELMRLDVSQRNHGGAAPTGSWMPSTETIAPNYRDHISVGLASRS  
 SSALGNSAWPS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001282872

**ORF Size:** 1293 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001282872.1, NP_001269801.1</u>
<b>RefSeq Size:</b>	2933 bp
<b>RefSeq ORF:</b>	1296 bp
<b>Locus ID:</b>	6007
<b>Cytogenetics:</b>	1p36.11
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	46.8 kDa
<b>Gene Summary:</b>	<p>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]</p>