

Product datasheet for **RC238384**

RHD (NM_001282870) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHD (NM_001282870) 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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC238384 representing NM_001282870
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCTCTAAGTACCCGCGGTCTGTCCGCGCTGCCTGCCCTCTGGGCCCTAACACTGGAAGCAGCTC
 TCATTCTCCTCTTCTATTTTTTTACCCACTATGACGCTTCCTTAGAGGATCAAAAGGGGCTCGTGGC
 CTATCAAGTTGGCCAAGATCTGACCGTGTGGCGCCATTGGCTTGGGCTTCTCACCTCGAGTTTCCGG
 AGACACAGCTGGAGCAGTGTGGCCTTCAACCTTTCATGCTGGCCTTGGTGTGCAGTGGCAATCCTGC
 TGGACGGCTTCTGAGCCAGTTCCTTCTGGGAAGGTGGTATCACACTGTTTCACTATTTCGGCTGGCCAC
 CATGAGTGCTTTGTGGTGTGATCTCAGTGGATGCTGTCTTGGGAAGGTCAACTTGGCGCAGTTGGT
 GTGATGGTGTGGTGGAGGTGACAGCTTAGGCAACCTGAGGATGGTATCAGTAATATCTCAACACAG
 ACTACCACATGAACATGATGCACATCTACGTGTTTCGCAGCCTATTTGGGCTGTCTGTGGCTGGTGCCT
 GCCAAAGCCTTACCCGAGGGAACGGAGGATAAAGATCAGACAGCAACGATACCCAGTTTGTCTGCCATG
 CTGGGCGCCCTTCTTGTGGATGTTCTGGCCAAGTTTCAACTCTGCTCTGCTGAGAAGTCCAATCGAAA
 GGAAGAATGCCGTGTTAACACCTACTATGCTGTAGCAGTCAGCGTGGTACAGCCATCTCAGGGTCATC
 CTTGGCTACCCCAAGGGAAGATCAGCAAGACTTATGTGCACAGTCCGGTGTGGCAGGAGGCGTGGCT
 GTGGGTACCTCGTGTACCTGATCCCTTCTCCGTGGCTTGCCATGGTGTGGTCTTGTGGCTGGGCTGA
 TCTCCGTGGGGGAGCCAAGTACCTGCCGGGTGTTGTAACCGAGTGTGGGGATTCCCCACAGCTCCAT
 CATGGGCTACAACCTCAGCTTGTGGTCTGCTTGGAGAGATCATCTACATTGTGCTGTGGTGTGAT
 ACCGTGGAGCCGCAATGGCATGATTGGCTTCCAGGTCCTCCTCAGCATTGGGGAACAGCTTGGCCA
 CTTGTGATAGCTCTCACGTCTGGTCTCCTGACAGTTTCTCATTGGCTGTTGGATTTTAAGCAAAAGCAT
 CCAAGAAAAACAAGCCGTGTTCAAAAACAAGACAACCTTCTCTCACTGTTGCCTGCATTTGTACGTGAGA
 AACGCTCATGACAGCAAAGTCTCCAATGTTCCGCGCAGGCACTGGAGTCAGAGAAAATGGAGTTGAATCCT
 TTCTCTGCCACTCTTTGAGGAGAATCTCACCATTATTATGCACTGTAGAATAACAACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238384 representing NM_001282870
 Red=Cloning site Green=Tags(s)

MSSKYPRSVRRCLPLWALTLEAALILLFYFFTHYDASLEDQKGLVASYQVQDLTVMAAIGLGLTSSFR
 RHSWSSVAFNLFMLALGVQWAILLDGFLSQFPSGKVVITLFSIRLATMSALSVLISVDAVLGKVNLAQLV
 VMVLVEVTALGNLRMVISNIFNTDYHMMMHIIYVFAAYFGLSVAWCLPKPLPEGTEKDQTATIPSLSAM
 LGALFLWMFWSFNALLRSPIERKNAVFNTYYAVAVSVVTAISGSSLAHPQGKISKTYVHSAVLAGGVA
 VGTSCHLIPSPWLAMVGLVAGLISVGGAKYLPGCCNRVLGIPHSSIMGYNFSLLGLLGEIYIVLLVLD
 TVGAGNGMIGFQVLLSIGELSLAIVIALTSGLLTVSSFGCWILSKSIQEKQGLFKNKTTSSHCLHLVYR
 NAHDSKVSINVRAGTVRENGVESFLCHSLRRISPFIMHCRIQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-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).

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: [NM_001282870.1](#), [NP_001269799.1](#)

RefSeq Size: 2763 bp

RefSeq ORF: 1392 bp

Locus ID: 6007

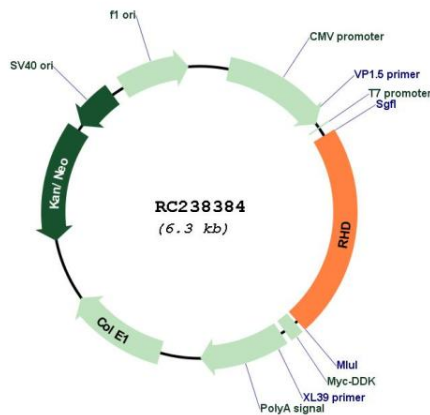
Cytogenetics: 1p36.11

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 RC238384