

Product datasheet for **RC210415**

RHCE (NM_020485) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHCE (NM_020485) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RHCE
Synonyms:	CD240CE; RH; Rh4; RH30A; RHC; RHCe(152N); RHE; RhIVb(J); RHIXB; RHNA; RHPI; RhVI; RhVIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210415 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCTAAGTACCCGCGTCTGTCCGGCGCTGCCTGCCCTCTGCGCCCTAACACTGGAAGCAGCTC
TCATTCTCTCTTCTATTTTTTACCCACTATGACGCTTCCTTAGAGGATCAAAGGGGCTCGTGGC
CTATCAAGTTGGCCAAGATCTGACCGTATGGCGCCATTGGCTTGGGCTTCTCACCTCGAGTTCCGG
AGACACAGCTGGAGCAGTGTGGCCTTCAACCTTTCATGCTGGCGCTTGGTGTGCAGTGGCAATCTGC
TGGACGGTTCCTGAGCCAGTTCCTTCTGGGAAGGTGGTCATCACACTGTTCACTATTCGCTGGCCAC
CATGAGTGCTATGTCGGTGTGATCTCAGCGGGTGTCTTGGGAAGGTCAACTTGGCGCAGTTGGTG
GTGATGGTGTGGTGGAGGTGACAGCTTATGGCACCTGAGGATGGTCATCAGTAATATCTTCAACACAG
ACTACCACATGAACCTGAGGCCTTCTACGTGTTGCGAGCCTATTTGGGCTGACTGTGGCTGGTGCCT
GCCAAAGCCTCTACCAAGGGAACGGAGGATAATGATCAGAGAGCAACGATACCCAGTTTGTCTGCCATG
CTGGGCGCCCTCTTCTTGGATGTTCTGGCAAGTGTCAACTCTGCTCTGCTGAGAAGTCCAATCCAAA
GGAAGAATGCCATGTTCAACACCTACTATGCTCTAGCAGTCAGTGGTGACAGCCATCTCAGGGTCATC
CTTGGCTACCCCCAAAGGAAGATCAGCATGACTTATGTGCACAGTGGTGGTGGTGGTGGTGGTGGT
GTGGTACCTCGTGTACCTGATCCCTTCTCGTGGCTTGGCATGGTGGTGGTGGTGGTGGTGGTGGT
TCTCCATCGGGGAGCCAAGTGCCTGCCGGTGTGTTGTAACCGAGTGTGGGATTACCCACATCTCCGT
CATGCACTCCATCTTCACTTGTGGTGTGCTTGGAGAGATCACCTACATTGTGCTGCTGGTGGTTCAT
ACTGTCTGGAACGGCAATGGCATGATTGGCTTCCAGGTCCTCCTCAGCATTGGGAACTCAGTTGGCCA
TCGTGATAGCTCTCACGTCTGGTCTCCTGACAGGTTTGTCTCTAAATCTCAAAATATGAAAGCACCTCA
TGTGGCTAAATATTTGATGACCAAGTTTTCTGGAAGTTTCTCATTGGCTGTTGGATT

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210415 protein sequence
Red=Cloning site Green=Tags(s)

MSSKYPRSVRRCLPLCAL TLEAAL ILLFYFFTHYDASLEDQKGL VASYQVGQDL TVMAAIGLGFLTSSFR
 RHSWSSVAFNLFMLALGVQWAILLDGFLSQFPSGKVVITLFSIRLATMSAMSVLISAGAVLGKVNLAQLV
 VMVLVEVTALGTLRMVISNIFNTDYHMNLRHFYVFAAYFGLTVAWCLPKPLPKGTEDNDQRATIPSLSAM
 LGALFLWMFWPSVNSALLRSPPIQRKNAMFNTYYALAVSVVTAISGSSLAHPQRKISMTYVHSAVLGGVA
 VGTSCHLIPSPWLAMVLGLVAGLISIGGAKCLPVCCNRVLGIHHISVMHSIFSLLLGGEITYIVLLVLH
 TVWNGNGMIGFQVLLSIGELSLAIVIALTSGLLTGLLLNLKIWKAPHVAKYFDDQVFWKPHLAVGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6137_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020485

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_020485.5](#)

RefSeq Size: 1618 bp

RefSeq ORF: 1254 bp

Locus ID: 6006

UniProt ID: [P18577](#)

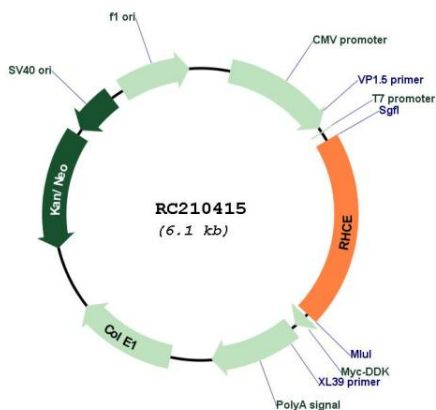
Cytogenetics: 1p36.11

Protein Families: Transmembrane

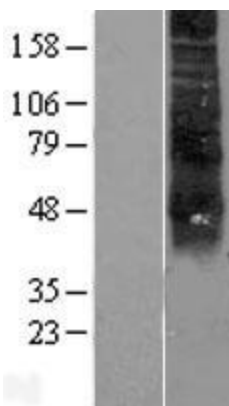
MW: 45.4 kDa

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 both the RhC and RhE antigens on a single polypeptide and a second gene which encodes the RhD protein. 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. A mutation in this gene results in amorph-type Rh-null disease. Alternative splicing of this gene results in multiple transcript variants encoding several different isoforms. [provided by RefSeq, Aug 2016]

Product images:



Circular map for RC210415



Western blot validation of overexpression lysate (Cat# [LY402791]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210415 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).