

Product datasheet for **RC222610**

RHCE (NM_138617) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHCE (NM_138617) 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:	>RC222610 representing NM_138617 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTCTAAGTACCCGCGGTCTGTCCGGCGCTGCCTGCCCTCTGCGCCCTAACACTGGAAGCAGCTC
TCATTCTCCTCTTCTATTTTTTACCCACTATGACGCTTCCTTAGAGGATCAAAGGGGCTCGTGGCATC
CTATCAAGTCGGCCAAGATCTGACCGTGATGGCGGCCCTGGCTTGGGCTTCTCACCTCAAATTTCCGG
AGACACAGCTGGAGCAGTGTGGCCTTCAACCTTTCATGCTGGCGCTTGGTGTGCAGTGGCAATCTGC
TGGACGGCTTCTGAGCCAGTTCCTCCTGGGAAGGTGGTCATCACACTGTTTCAGTATTCGGCTGGCCAC
CATGAGTGCTATGTCGGTCTGATCTCAGCGGGTGTCTTGGGAAGGTCAACTTGGCGCAGTTGGTG
GTGATGGTGTGGTGGAGGTGACAGCTTATGGCACCTGAGGATGGTCATCAGTAATATCTTCAACACTT
ATGTGCACAGTGCAGTGTGGCAGGAGCGTGGCTGTGGGTACCTCGTGTACCTGATCCCTTCTCCGTG
GCTTGCCATGGTGTGGTCTTGTGGTGGGCTGATCTCCATCGGGGAGCCAAGTGCCTGCCGGTGTGT
TGTAACCGAGTGTGGGATTACCACATCTCCGTGATGCACTCCATCTTTCAGCTTGTGGGCTGCTTG
GAGAGTACCTACATTGTGCTGCTGGTCTTCACTGTCTGGAACGGCAATGGCATGTTTGCTCCTAA
ATCTCAAATATGGAAGCACCTCATGTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222610 representing NM_138617
Red=Cloning site Green=Tags(s)

MSSKYPRSVRRCLPLCALTLEAALILLFYFFTHYDASLEDQKGLVASYQVGQDLTVMAALGLGFLT SNFR
 RHSWSSVAFNLFMLALGVQWAILLDGFLSQFPPGKVVITLFSIRLATMSAMSVLISAGAVLGKVNLAQLV
 VMVLVEVTALGTLRMVISNIFNTYVHSVAVLAGGVAVGT SCHLIPSPWLA MVLGLVAGLISIGGAKCLPVC
 CNRVLGIHHISVMHSIFSL LGLLGEITYIVLLVLHTVWNGNGMFAPKSQNMESTSCG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8048_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138617

ORF Size: 801 bp

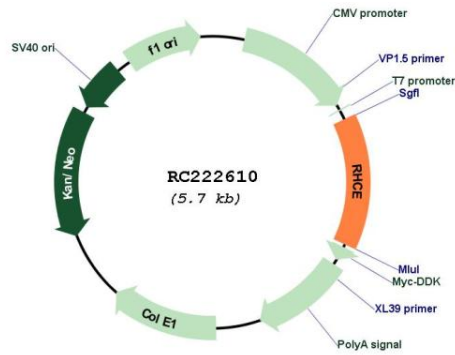
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

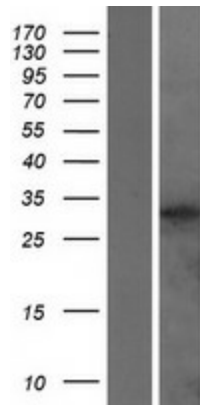
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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_138617.2 , NP_619523.2
RefSeq Size:	1240 bp
RefSeq ORF:	804 bp
Locus ID:	6006
UniProt ID:	P18577
Cytogenetics:	1p36.11
Protein Families:	Transmembrane
MW:	28.4 kDa
Gene Summary:	<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 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]</p>

Product images:



Circular map for RC222610



Western blot validation of overexpression lysate (Cat# [LY408452]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222610 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).