

## **Product datasheet for RC205535**

## RND1 (NM 014470) Human Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

Product Name: RND1 (NM\_014470) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: RND1

Synonyms: ARHS; RHO6; RHOS

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC205535 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAAGGAGAGCCCCCCCAGCCAGTCGTGGCCAGATGTAAGCTCGTTCTGGTCGGGGACGTGCAGT
GTGGGAAGACCGCGATGTTGCAAGTGTTAGCGAAGGATTGCTATCCAGAGACCTATGTGCCCACCGTGTT
CGAAAATTACACAGCCTGTTTGGAGACAGAGGAACAGAGGGTGGAGCTTAGTCTCTGGGATACCTCAGGA
TCTCCCTACTACGATAATGTCCGTCCACTCTGCTACAGCGACTCGGATGCAGTATTACTATGTTTTGACA
TCAGCCGTCCAGAGACAGTGGACAGCGCACTCAAGAAGTGGAGGACAGAAATCCTAGATTATTGTCCCAG
CACCCGCGTTTTGCTCATTGGCTGCAAGACAGACCTGCGAACAGACCTGAGTACTCTGATGAGCTGTCC
CACCAGAAGCAGGCGCCCATCTCCTATGAGCAGGGTTGTGCAATAGCAAAGCAGCTGGGTGCAGAAATCT
ACCTGGAAGGCTCAGCTTTCACCTCAGAAAAGAGCATCCACAGCATCTTTCGGACGGCATCCATGCTGTG
TCTGAACAAGCCTAGCCCACTGCCCCAGAAAGAGCCCTGTCCGAAGCCTCTCCCAAACGACTGCTCCACCTC
CCCAGTCGCTCTGAACTCATCTTCTTCTACCTTCAAGAAGGAAAAGGCCAAAAGCTGTTCCATTATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC205535 protein sequence

Red=Cloning site Green=Tags(s)

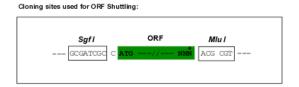
**PSRSELISSTFKKEKAKSCSIM** 

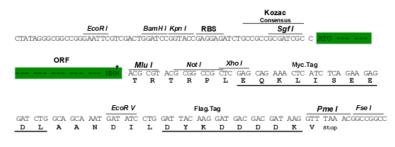
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6312">https://cdn.origene.com/chromatograms/mk6312</a> g05.zip

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_014470

ORF Size: 696 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. 0

- 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: <u>NM 014470.4</u>

 RefSeq Size:
 1665 bp

 RefSeq ORF:
 699 bp

 Locus ID:
 27289

 UniProt ID:
 Q92730

 Cytogenetics:
 12q13.12

**Domains:** ras, RAS, RHO, RAB

**Protein Families:** Stem cell - Pluripotency

**Protein Pathways:** Axon guidance

**MW:** 26.1 kDa

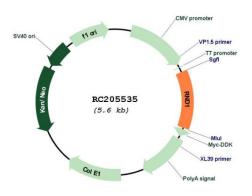
**Gene Summary:** This gene encodes a protein that belongs to the Rho GTPase family. Members of this family

regulate the organization of the actin cytoskeleton in response to extracellular growth factors.

A similar protein in rat interacts with a microtubule regulator to control axon extension.

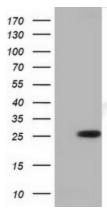
[provided by RefSeq, Apr 2014]

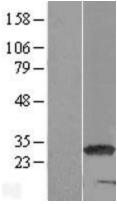
## **Product images:**

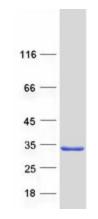


Circular map for RC205535









HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RND1 (Cat# RC205535, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RND1(Cat# [TA501691]). Positive lysates [LY415252] (100ug) and [LC415252] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY415252]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205535 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified RND1 protein (Cat# [TP305535]). The protein was produced from HEK293T cells transfected with RND1 cDNA clone (Cat# RC205535) using MegaTran 2.0 (Cat# [TT210002]).