

# Product datasheet for RC203303

## RHOA (NM\_001664) Human Tagged ORF Clone

### **Product data:**

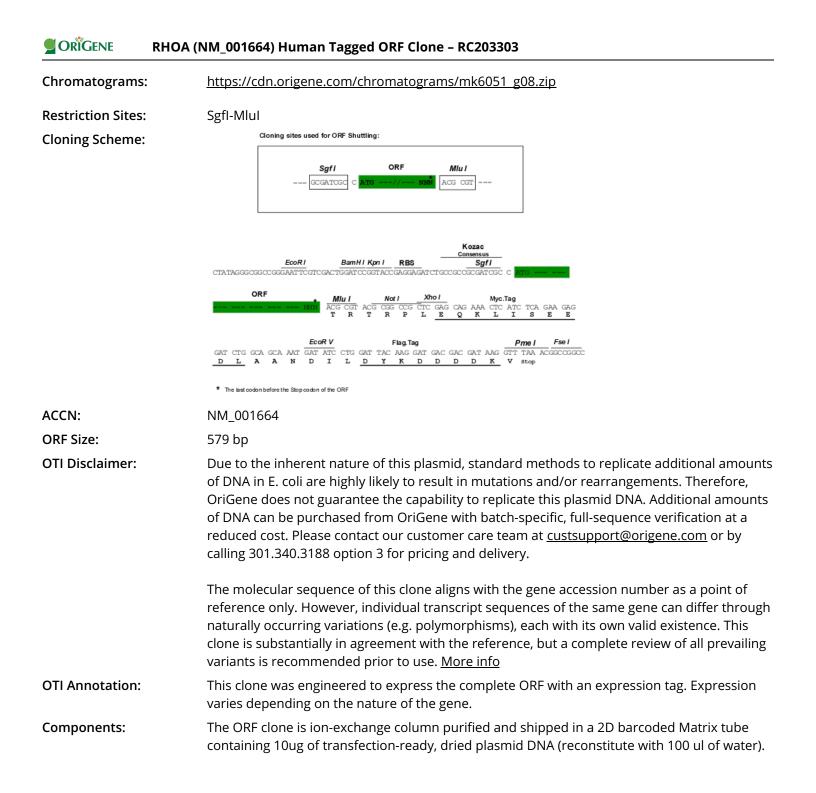
#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	RHOA (NM_001664) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RHOA
Synonyms:	ARH12; ARHA; EDFAOB; RHO12; RHOH12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC203303 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCTGCCATCCGGAAGAAACTGGTGATTGTTGGTGATGGAGCCTGTGGAAAGACATGCTTGCT
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>RC203303 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MAAIRKKLVIVGDGACGKTCLLIVFSKDQFPEVYVPTVFENYVADIEVDGKQVELALWDTAGQEDYDRLR PLSYPDTDVILMCFSIDSPDSLENIPEKWTPEVKHFCPNVPIILVGNKKDLRNDEHTRRELAKMKQEPVK PEEGRDMANRIGAFGYMECSAKTKDGVREVFEMATRAALQARRGKKKSGCLVL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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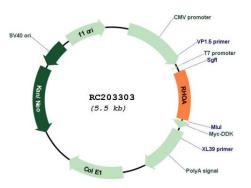
# **PORIGENE** RHOA (NM\_001664) Human Tagged ORF Clone – RC203303

Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 001664.4</u>
RefSeq Size:	1926 bp
RefSeq ORF:	582 bp
Locus ID:	387
UniProt ID:	<u>P61586</u>
Cytogenetics:	3p21.31
Domains:	ras, RAS, RHO, RAB
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Axon guidance, Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Neurotrophin signaling pathway, Pathogenic Escherichia coli infection, Pathways in cancer, Regulation of actin cytoskeleton, T cell receptor signaling pathway, TGF-beta signaling pathway, Tight junction, Vascular smooth muscle contraction, Wnt signaling pathway
MW:	21.8 kDa
Gene Summary:	This gene encodes a member of the Rho family of small GTPases, which cycle between inactive GDP-bound and active GTP-bound states and function as molecular switches in signal transduction cascades. Rho proteins promote reorganization of the actin cytoskeleton and regulate cell shape, attachment, and motility. Overexpression of this gene is associated with tumor cell proliferation and metastasis. Multiple alternatively spliced variants have been identified. [provided by RefSeq, Sep 2015]

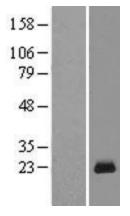
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### **Product images:**

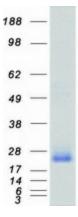


Circular map for RC203303



Western blot validation of overexpression lysate (Cat# [LY400630]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203303 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified RHOA protein (Cat# [TP303303]). The protein was produced from HEK293T cells transfected with RHOA cDNA clone (Cat# RC203303) using MegaTran 2.0 (Cat# [TT210002]).

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