

Product datasheet for RC200307

RHEB (NM_005614) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

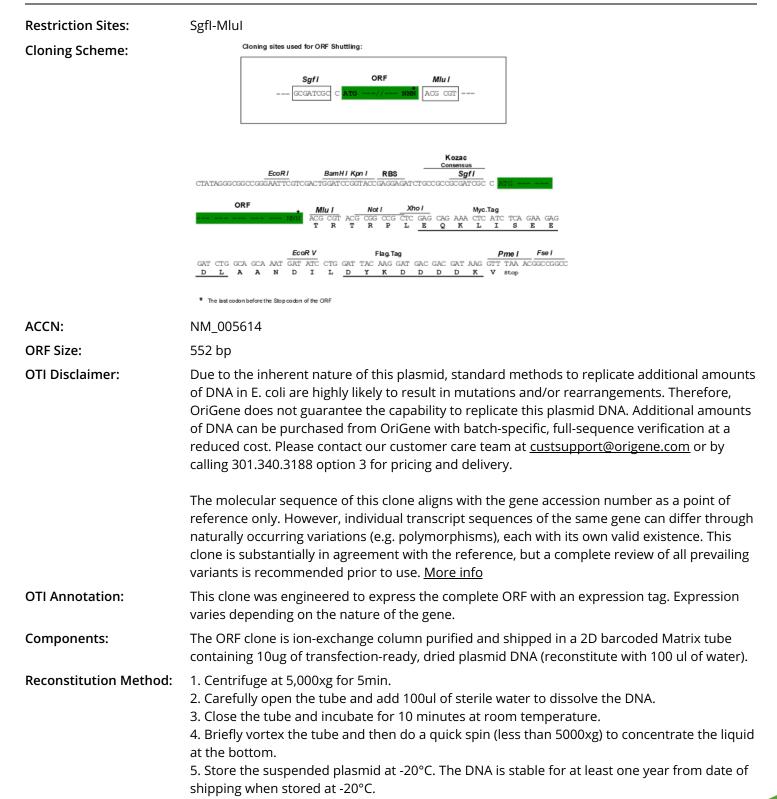
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Product Type:	Expression Plasmids
Product Name:	RHEB (NM_005614) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RHEB
Synonyms:	RHEB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC200307 representing NM_005614 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCCGCAGTCCAAGTCCCGGAAGATCGCGATCCTGGGCTACCGGTCTGTGGGGAAATCCTCATTGACGA TTCAATTTGTTGAAGGCCAATTTGTGGACTCCTACGATCCAACCATAGAAAACACTTTTACAAAGTTGAT CACAGTAAATGGACAAGAATATCATCTTCTAACTTGTAGACACAGCCGGGCAAGATGAATATTCTATCTTT CCTCAGACATACTCCATAGATATTAATGGCTATATTCTTGTGTATTCTGTTACATCAATCA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	<pre>>RC200307 representing NM_005614 Red=Cloning site Green=Tags(s)</pre>
	MPQSKSRKIAILGYRSVGKSSLTIQFVEGQFVDSYDPTIENTFTKLITVNGQEYHLQLVDTAGQDEYSIF PQTYSIDINGYILVYSVTSIKSFEVIKVIHGKLLDMVGKVQIPIMLVGNKKDLHMERVISYEEGKALAES WNAAFLESSAKENQTAVDVFRRIILEAEKMDGAASQGKSSCSVM
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mg3781_h05.zip



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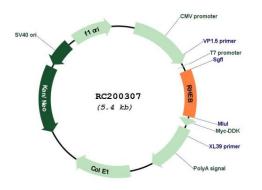
CRIGENE RHEB (NM_005614) Human Tagged ORF Clone – RC200307



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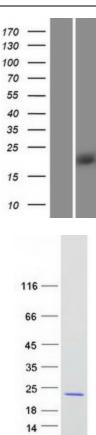
	RHEB (NM_005614) Human Tagged ORF Clone – RC200307
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 005614.4</u>
RefSeq Size:	1396 bp
RefSeq ORF:	555 bp
Locus ID:	6009
UniProt ID:	<u>Q15382</u>
Cytogenetics:	7q36.1
Domains:	ras, RAS, RHO, RAB
Protein Pathway	s: Insulin signaling pathway, mTOR signaling pathway
MW:	20.3 kDa
Gene Summary:	This gene is a member of the small GTPase superfamily and encodes a lipid-anchored, cell membrane protein with five repeats of the RAS-related GTP-binding region. This protein is vital in regulation of growth and cell cycle progression due to its role in the insulin/TOR/S6K signaling pathway. The protein has GTPase activity and shuttles between a GDP-bound form and a GTP-bound form, and farnesylation of the protein is required for this activity. Three pseudogenes have been mapped, two on chromosome 10 and one on chromosome 22. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC200307

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Western blot validation of overexpression lysate (Cat# [LY417187]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200307 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified RHEB protein (Cat# [TP300307]). The protein was produced from HEK293T cells transfected with RHEB cDNA clone (Cat# RC200307) using MegaTran 2.0 (Cat# [TT210002]).

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