

## Product datasheet for **RC235295**

### **RGNEF (ARHGEF28) (NM\_001244364) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RGNEF (ARHGEF28) (NM_001244364) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RGNEF
Synonyms:	p190RHOGEF; RGNEF; RIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC235295 representing NM_001244364 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATTCTGACTCCGACTCACCTTTAACTACTCGTGGCCTTCCTTTCCAAAATGAAGATTCGAAGAA  
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TCTTTCATAATGGAAGATGTTGTGGATTCTTCTCTGTGGAGTGACCTCAGCAGTGATGCCAGGAGTTG  
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**Protein Sequence:** >RC235295 representing NM\_001244364  
Red=Cloning site Green=Tags(s)

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 GDLDISYINIEGITATTSPE SRGCTLWPQSSKHTLPTETSPSVYPLSENVGTAHTAQSFMSPPSSCA  
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 TEPDFNISRAESLPLSSNLQSKESLLSGVRSRSYSCSSPKISLGKTRLVRELTVCSSEEQRAYSLSEPP  
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 ERTLLYDGLVYWKATGRFKDILALLLTDVLLFLQEKDQKYIFAAVDQKPSVISLQKLIAREVANEERGM  
 FLISASSAGPEMYEIHNTSKEERNNMRRIQQAVESCPEEKGGRTSE SDEDKRKAEARVAKIQQCQEILT  
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 LERLREGQRLVEREQARMRAQQSLLGHWKHGRQSLPAVLLPGGPEVMELNRSESLCHENSFFINEALVQ  
 MSFNTFNKLNPSVIHQDATYPTTQSHSDLVRTSEHQVDLKVDPSPQSNVSHKLWT AAGSGHQILPFHES  
 KDSCKNLDLDTSHTESPTPHDSNSHRPQLQAFITEAKLNLPTRTMTRQDGETGDGAKENIVYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

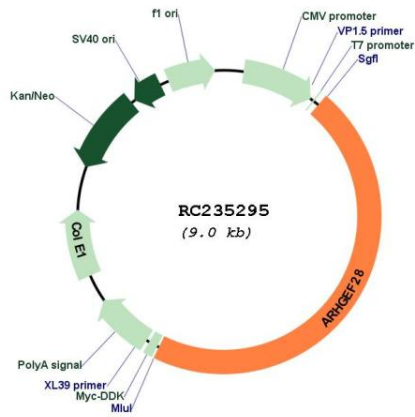


**ACCN:** NM\_001244364

**ORF Size:** 4176 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001244364.2</a>
<b>RefSeq Size:</b>	5247 bp
<b>RefSeq ORF:</b>	4179 bp
<b>Locus ID:</b>	64283
<b>UniProt ID:</b>	<a href="#">Q8N1W1</a>
<b>Cytogenetics:</b>	5q13.2
<b>MW:</b>	157.7 kDa
<b>Gene Summary:</b>	This gene encodes a member of the Rho guanine nucleotide exchange factor family. The encoded protein interacts with low molecular weight neurofilament mRNA and may be involved in the formation of amyotrophic lateral sclerosis neurofilament aggregates. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Apr 2010]

Product images:



Circular map for RC235295