

Product datasheet for **RC211138**

GARRE1 (NM_014686) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GARRE1 (NM_014686) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GARRE1
Synonyms:	KIAA0355
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211138 representing NM_014686 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATTGCTGCAGTGCCCAGGACAGTAAATGGACTACAAGCGGCGCTTCCTGCTTGGCGGGTCCAAGC
AGAAGGTGCAGCAGCACCAGCAATACCCGATGCCTGAGCTGGGCCGAGCACTGAGTGCTCCCTGGCATC
CACGGCCACCACTGCCCCCTGGGCAGTCTGACCGCTGCAGGCAGCTGCCACCATGCCATGCCCCACACT
ACTCCTATCGCCGACATCCAGCAGGGCATCTCCAAGTATCTGGATGCCCTGAACGTCTTCTGCCGTGCCA
GTACTTTCTCACAGATCTCTTCAGCACTGTGTTCAAGAACTCTCACTACTCAAAGGCAGCCACACAGCT
CAAAGATGTGCAGGAGCATGTGCATGGAAGCAGCCAGTCGGCTGACCTCGGCCATAAAGCCTGAGATCGCC
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GAAGGTCCAGCCGGTGGCTCACTCTTGCTTTGCTGAGGTGATCGTGCCAGAAAAAAGAACAGCGGCAGT
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CGCTGGAGGGCTGGAAGGGAGCAAGCTTTACCCTGCATACAGATCCAGCTGCAAAGGGAGATCTGTGATT
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Protein Sequence:

>RC211138 representing NM_014686

Red=Cloning site Green=Tags(s)

MYCCSAQDSKMDYKRRFLLGGSKQKVQHQYPMPELGRALSAPLASTATTAPLGSLTAAGSCHAMPHT
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 GGGLSGMGHTPEVEEAVRSWRGAAEATSRLRERCGDCLAGIEVQQLFCSQSAAIPEHLKELNIKIDSA
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 RWRAGREQALPCIQIQLEICDFGNQADLP SGNGNKSSGGLQKTF SKLTSRFTKKASCTSSSSSTNYSI
 QNTPSKNIFIAGCSEKAKMPGNIDTRLQSI LNIGNFPRTTDPSSQSAQNSSNTVANGFLMERRENFLHGD
 DGKDEKGMNLPTDQEMQEVIDFLSGFNMGQSHQGSPLVTRHNSAATAMVTEQKAGAMQPQPSLPVPPPP
 RAPQAGAHTPLTPQPLAPQQSPKQQQPQVQYQHLLQPIGPQQPPPPQPRAPGKVVHSSQQAQAVGA
 GLSPLGQWPGISDLSSDLYSLGLVSSYMDNMSEVLGQKPQGPNNTPWNRDQSDGVFGMLGEILPFDPA
 VGSDPEFARYVAGVSQAMQQKRAQHGRRPGNPRGNWPPMDAHRTPWPFEEFTEGDGLHGGWSGAQGDS
 ASSSDETSSANGDSLFSMFSGPDLVAAVKQRRKHSSGEQDTSTLPSPLLTTVEDVNDNKTKTWPPKAP
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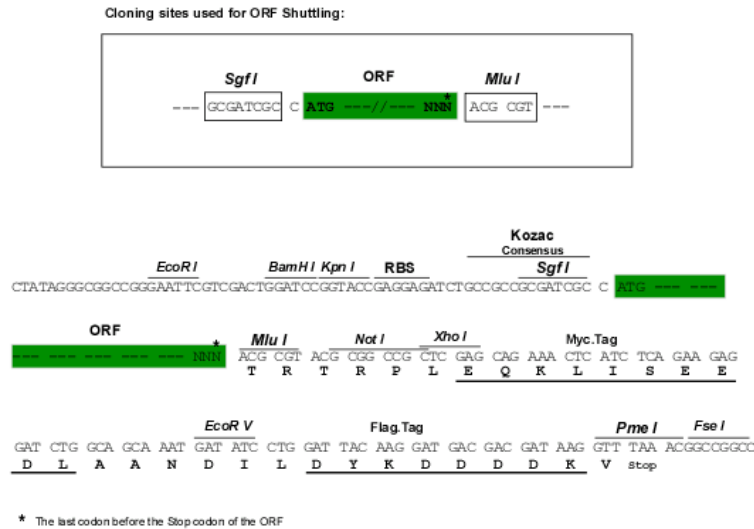
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8114_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014686

ORF Size: 3210 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. 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.

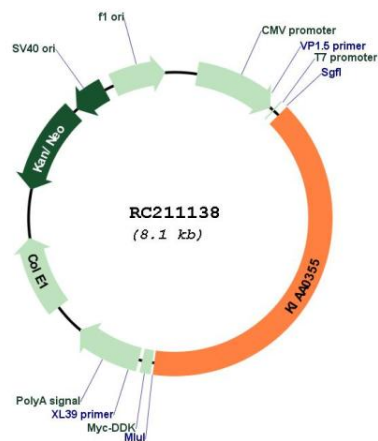
RefSeq: [NM_014686.5](#)

RefSeq Size: 6683 bp

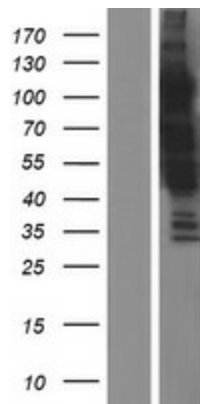
RefSeq ORF: 3213 bp

Locus ID:	9710
UniProt ID:	O15063
Cytogenetics:	19q13.11
MW:	116 kDa
Gene Summary:	Acts as an effector of RAC1 (PubMed:31871319). Associates with CCR4-NOT complex which is one of the major cellular mRNA deadenylases and is linked to various cellular processes including bulk mRNA degradation, miRNA-mediated repression, translational repression during translational initiation and general transcription regulation (PubMed:29395067). May also play a role in miRNA silencing machinery (PubMed:29395067).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC211138



Western blot validation of overexpression lysate (Cat# [LY415104]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211138 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).