

Product datasheet for **RG211138**

GARRE1 (NM_014686) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GARRE1 (NM_014686) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GARRE1
Synonyms:	KIAA0355
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211138 representing NM_014686 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATTGCTGCAGTGCCAGGACAGTAAATGGACTACAAGCGGCGCTTCCTGCTTGGCGGGTCCAAGC
AGAAGGTGCAGCAGCACCAGCAATACCCGATGCCTGAGCTGGGCCGAGCACTGAGTGCTCCCTGGCATC
CACGGCCACCACTGCCCCCTGGGCAGTCTGACCGCTGCAGGCAGCTGCCACCATGCCATGCCCCACACT
ACTCCTATCGCCGACATCCAGCAGGGCATCTCCAAGTATCTGGATGCCCTGAACGTCTTCTGCCGTGCCA
GTACTTTCTCACAGATCTCTTCAGCACTGTGTTCAAGAACTCTCACTACTCAAAGGCAGCCACACAGCT
CAAAGATGTGCAGGAGCATGTGCATGGAAGCAGCCAGTCGGCTGACCTCGGCCATAAAGCCTGAGATCGCC
AAGATGCTAATGGAACCTAGTGCTGGGGCTGCAAAATTTACGGATCAGAAGGAATTCAGTCTCCAGGACA
TTGAGGTGTTGGGGCGATGTTTCTGACTGTGGTGCAAGTCCATTTCCAGTTTTTGACTCATGCGTTACA
GAAGGTCCAGCCGGTGGCTCACTCTTGCTTTGCTGAGGTGATCGTGCCAGAAAAAAGAACAGCGGCAGT
GGCGGCGGCTTATCTGGCATGGGCCACACACCTGAAGTAGAGGAAGCTGTGCGGTCTGGCGGGGGCTG
CTGAGGCGACATCTAGACTAAGAGAAAGAGGCTGTGATGGTTGCCTGGCAGGAATTGAAGTTCAACAAC
CTTTTGTCTCAAAGTGACGAATTCCTGAGCACCAGCTAAAAGAACTGAACATAAAAAATCGACAGTGCT
TTGCAAGCATATAAGATAGCTCTGGAAAGCTTAGGACACTGTGAATATGCAATGAAAGCCGCTTCCACC
TGAATCCAAAGGCGATTGAAGCAAGTTTGCAAGGCTGCTGCAGCGAGGCGGAAGCCAGCAGACGGGGCG
GAGGCAGACACCCCGCAGCCCATGCAGTGTGAGCTCCCCACCGTCCCTGTGCAGATAGGATCGCACTTC
CTGAAGGGCGTCTCCTTTAATGAGTCGGCCGCCGACAATCTGAACTTAAGACGCATACAATGTTACAGC
TGATGAAGGAGGCAGGCTGCTATAATGGAATCACATCCAGGGATGATTTTCTGTGACTGAAGTGCTGAA
CCAGGTTTGCCCTTCCACATGGCGAGGTGCCTGCAAGACGGCGGTGCAGTGTCTTTGGCCAGGCTGGA
CTGGTGGTGGTTGACACAGCACAGATTGAGAATAAAGAAGCCTATGCCCCCAGATCAGTTAGAAGGCT
CTAGAATCGTGGTTCAAGTCCCATCCACATGGTGCCTGAAAGAAGACCCTGCTACCATGTCCCTGCTGCA
GAGAAGCCTTGATCCTGAGAAGACCCTGGGTCTAGTGGACGTGCTCTACACAGCTGTGCTGGACCTAAAC



[View online »](#)

```
CGCTGGAGGGCTGGAAGGGAGCAAGCTTTACCCTGCATACAGATCCAGCTGCAAAGGGAGATCTGTGATT
TTGGCAACCAGGCTGACCTGCCTTCTGGAAATGGAAACAAATCTTCAGGTGGCCTGCAGAAGACATTCTC
CAAAGTACATCCCGTTTACCAAGAAAGCTTCATGTACCAGCTCCAGCAGCAGCACAATTATTCATC
CAAAATACCCCTTCAAAAACATCTTCATAGCTGGATGTTCCGAAGAGAAGGCCAAAATGCCTGGCAATA
TTGATACAAGGTTACAAAGCATTTTGAACATTGGTAATTTCCCAGGACTACAGACCTTCACAGTCAGC
TCAGAATTCAGTAATACAGTGGCCAATGGCTTCTCATGGAGAGGCGTGAGAATTCTGCATGGAGAT
GACGGCAAGGATGAGAAGGGTATGAACCTACCAACTGATCAGGAAATGCAAGAGGTGATAGATTTTCTCT
CGGGCTTTAACATGGGCCAGTCACATCAGGGCTCTCCGTTGGTGACAAGGCATAATTCTGCTGCCACAGC
CATGGTGAATGAGCAGAAGGCAGGAGCCATGCAACCACAGCAGCCGCTCACTGCCTGTGCCCTCCACCA
CGGGCACCCAGGCTGGGGCACACACCTCTGACACCCAGCCGGGACTGGCACCTCAGCAGCAGTCCC
CAAAGCAGCAACAACCTCAAGTCCAATACTACCAACACCTACTCCAGCCATTGGACCGCAGCAGCCCC
GCCCCAGCCTCGGGCACCTGGGAAATGGGTACATGGCTCATCCAGCAGCCAGCGCAGGCTGTTGGAGCA
GGTCTGTCTCTTGGTCAGTGGCTGGCATATCTGATCTCAGTTCTGACTTGTACAGCTTGGGTCTGG
TGAGCAGCTATATGGATAATGTGATGTCAGAGGTTCTGGGACAGAAGCCGAGGACCTAGAAATAACAC
CTGGCCCAACCGTGACCAAAGTATGGAGTCTTTGGAATGCTGGGAGAGATTCTGCCTTTTGATCCTGCA
GTGGGCTCAGACCCAGAGTTTGACGCTATGTGGCAGGAGTGAGCCAGGCGATGACGAGAAGCGGCAGG
CCCAGCACGGTCCCGGCCAGGCAACCCCGGGGCAACTGGCCGCTATGGATGACGCGCATCGGACCTG
GCCCTTCCCGAGTTCTTACAGAAGGGGATGGCTGCACGGTGGCTGGTGGGTGCTCAGGGAGACTCT
GCCAGCTCGAGTGATGAGACATCCTCAGCCAACGGGGACAGCTTGTCTCCATGTTTTAGGGCCTGACC
TCGTTGCTGTGTCAAGCAGAGAAGGAAACACAGCAGTGGAGAGCAAGACACCAGCAGCTGCCCTCACC
ACCTCTCCTCACCACGGTGGAGGATGTGAACAGGATAACAAAACCAAAACGTGGCCACCCAAAGCACCC
TGGCAGCACCCCTCCCGCTTCCCAGCAGCTGCCAGCCCCAGCGCACCCTCTATGCAGTCACCAGCC
CTGGCAGCCAGTGAACGACACCATGCAGATGCTGCAGTCCCCAGTGTGGCCGCAACCAACGACTGCAG
TGCCGCTGCCTTCTCCTATGTGCAGACCCACCCAGCCCCACCCCAACAGCACACAAGGCAGCACCC
AAGGGCTTCAAGGCTTCCCTGGGAAGGGTGAGCGCAGGCCAGCCTATCTGCCCCAGTAC
```

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211138 representing NM_014686

Red=Cloning site Green=Tags(s)

```
MYCCSAQDSKMDYKRRFLLGGSKQKVQQHQQYPMPELGRALSAPLASTATTAPLGSLTAAGSCHHAMPH
TPIADIQQGISKYLDALNVFCRASTFLTDLFSTVFRNSHYSKAATQLKDVQEHVMEASRLTSAIKPEIA
KMLMELSAGANFTDQKEFSLQDIEVLGRCFLTVVQVHFQFLTHALQKVQPAHSCFAEIVPEKKNSGS
GGGLSGMGHTPEVEEAVRSWRGAAEATSRLRERCGDCLAGIEVQQLFCSQSAAIPEHQLKELNIKIDSA
LQAYKIALES LGHCEYAMKAGFHLNPKAIEASLQGCCSEAEAAQTGRRQTPPQPMQCELPVVPVQIGSHF
LKGVSFNESAADNLKLTHTMLQLMKEAGCYNGITSRDDFPVTEVLNQVCPSTWRGACKTAVQLLFGQAG
LVVVDTAQIENKEAYAPQISLEGSRIVVQVPSTWCLKEDPATMSLLQRS LDPEKTLGLVDVLYTAVLDLN
RWRAGREQALPCIQIQLEICDFGNQADLP SGNGNKSSGGLQKTF SKLTSRFTKKASCTSSSSSTNYSI
QNTPSKNIFIAGCSEEKAKMPGNIDTRLQSI LNIGNFPRTTDPSQSAQNSSNTVANGFLMERRENFLHGD
DGKDEKGMNLPTDQEMQEVIDFLSGFNMGQSHQGSPLVTRHNSAATAMVTEQKAGAMQPQPSLPVPPPP
RAPQAGAHTPLTPQPLAPQQQSPKQQQPVQYQHLLQPIGPQQPPPPQPRAPGKVVHGSQQPAQAVGA
GLSPLGQWPGISDLSSDLYSLGLVSSYMDNMSEVLGQKPQGPNNTPWNRDQSDGVFGMLGEILPFDPA
VGSDPEFARYVAGVSQAMQKQRAQHGRPPGNPRGNWPPMDDAHRTPWPEFFTEGDGLHGGWSGAQGDS
ASSDDESSANGDSLFSMFSGPDLVAAVKQRRKHSSGEQDTSLPSPPLTTVEDVNQDNKTKTWPPKAP
WQHPSPLPSTLPSAPLYAVTSPGSQWNDTMQMLQSPVWAATNDCSAAAFSYVQTPPPPPPAHKAAP
KGFKAFPGKGERRPAYLPQY
```

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfi-MluI

Cloning Scheme:

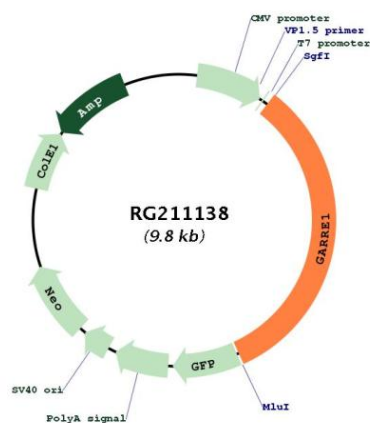

ACCN:	NM_014686
ORF Size:	3210 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
RefSeq:	NM_014686.5
RefSeq Size:	6683 bp
RefSeq ORF:	3213 bp
Locus ID:	9710

UniProt ID: [O15063](#)

Cytogenetics: 19q13.11

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 RG211138