

Product datasheet for **RG220552**

RIT1 (NM_006912) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RIT1 (NM_006912) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RIT1
Synonyms:	NS8; RIBB; RIT; ROC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220552 representing NM_006912 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTCTGGAACCGCCAGTTGGTAGCTGCTGTAGCAGCCCCGCTGGGCTCTCACGGGAGTACAAAC
TAGTGATGCTGGGTGCTGGTGGTGTAGGGAAGAGTGCCATGACCATGCAGTTCATCAGCCACCGATTCCC
AGAAGATCATGATCCCACCATTTGAAGATGCTTATAAGATCAGGATCCGTATTGATGATGAGCCTGCCAAT
CTGGACATTTTGGATACAGCTGGACAGGCAGAGTTTACAGCCATGCGGGACCAGTATATGAGGGCAGGAG
AAGGGTTTATCATCTGTTACTCTATCACGGATCGTCAAGTTTCCATGAAGTTCGTGAGTTAAACAGCT
TATTTATCGAGTCCGACGTACTGACGATACACCTGTGGTCTTGTGGGAAACAAGTCAGACCTCAAACAG
CTAAGACAGGTCACCAAGGAAGAAGGATTGGCCTTGGCCCGAGAATTCAGCTGTCCCTTTTTTGGAGACAT
CTGCTGCATACCGCTACTATATTGATGATGTTTTCCATGCCCTTGTACGGGAGATACGTAGGAAAGAAAA
GGAGGCAGTACTGGCCATGGAGAAAAAATCTAAGCCCAAAAACAGTGTATGGAAGAGGCTAAAATCACCA
TTCCGGAAGAAGAAAGATTCACTAACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220552 representing NM_006912
 Red=Cloning site Green=Tags(s)

MDSGTRPVGSCCSSPAGLSREYKLVMLGAGGVGKSAMTMQFISHRFPEDHDPTIEDAYKIRIRIDDEPAN
 LDILDTAGQAEFTAMRDQYMRAGEGFIICYSITDRRSFHEVREFKQLIYRVRRDDTPVVLVGNKSDLKQ
 LRQVTKEEGLALAREFSCPFFETSAAAYRYIDDFHALVREIRRKEKEAVLAMEKKSKPKNSVWKRLKSP
 FRKKKDSVT

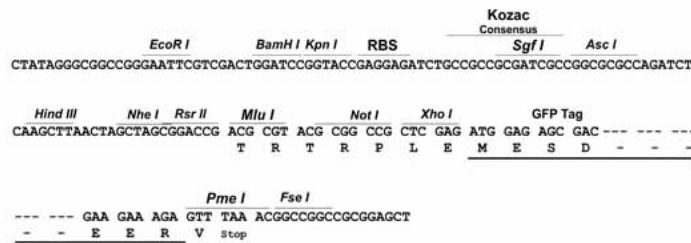
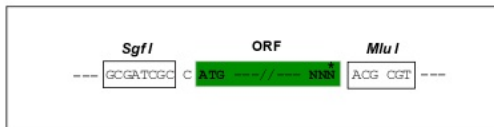
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2259_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_006912

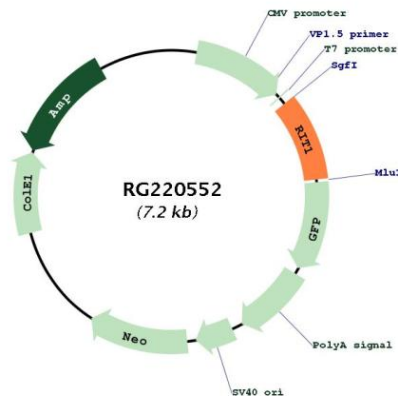
ORF Size: 657 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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:	<u>NM_006912.6</u>
RefSeq Size:	1104 bp
RefSeq ORF:	660 bp
Locus ID:	6016
UniProt ID:	<u>Q92963</u>
Cytogenetics:	1q22
Domains:	ras, RAN, RAS, RHO, RAB
Gene Summary:	This gene encodes a member of a subfamily of Ras-related GTPases. The encoded protein is involved in regulating p38 MAPK-dependent signaling cascades related to cellular stress. This protein also cooperates with nerve growth factor to promote neuronal development and regeneration. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2012]

Product images:


Circular map for RG220552