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Product datasheet for RG212160

RRAGD (NM_021244) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RRAGD (NM_021244) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RRAGD
Synonyms:	bA11D8.2.1; RAGD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG212160 representing NM_021244
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCCAGGTGCTGGGGAAGCCGCAGCCGCAGGACGAGGACGACGCGGAGGAGGAGGAGGAGGATG
AGCTGGTGGGGCTAGCGGACTACGGAGACGGGCCCGACTCCTCCGACGCCGATCCGGACAGCGGCACAGA
GGAGGGAGTTCTGGACTTCAGTGACCCCTTCAGCACTGAAGTGAAGCCGAGAATCCTGCTCATGGGCCTG
AGGAGAAGCGGCAAGTCGTCTATTCAGAAAGTTGTCTTTCACAAAATGTCTCCCAACGAAACTCTGTTCT
TGGAGAGCACTAATAAGATATGCCGGGAAGATGTTTCCAACAGCTCCTTTGTCAATTTTCAGATTTGGGA
CTTCCCAGGACAGATTGACTTTTTTGACCCTACATTTGACTATGAGATGATCTTCCGGGGAACAGGAGCA
CTGATATTTGTCATTGACTCACAGGATGATTACATGGAAGCCCTGGCCAGGCTCCACCTCACGGTGACCA
GGGCCTACAAAGTGAATACTGACATCAACTTCGAGGTGTTTATTCATAAAGTGGATGGTCTGTCAGATGA
CCACAAAATTGAAACCCAAAGAGATATTCACCAGAGGGCAAACGATGACCTTGCAGATGCTGGATTAGAA
AAAATTCACCTCAGCTTTTATCTGACAAGCATATATGATCATTCAATATTTGAAGCTTTTAGCAAAGTTG
TTCAGAAACTGATTCCACAACTCCCAACTCTGGAGAATTTGCTGAACATCTTTATCTCAAATTCTGGAAT
TGAAAAGGCATTTCTATTTGATGTGGTCAGTAAAATTTATATTGCAACTGATAGTACTCCGGTGGATATG
CAAACCTATGAGCTCTGCTGTGATATGATAGATGTGGTTATTGACATCTCTTGTATTTATGGTCTCAAAG
AAGATGGAGCAGGAACCCCCTATGACAAGGAATCCACAGCCATCATAAAGCTTAATAATACAACCGTGCT
TTATTTAAAAGAGGTGACAAAGTTCCTGGCTCTCGTTTGCTTTGTCAGAGAGGAAAGCTTTGAAAGAAAA
GGGCTAATTGACTATAATTTTCATTGCTTCCGGAAGGCCATTCATGAAGTTTTTGAGGTGAGAATGAAAG
TAGTAAAATCTCGAAAGGTTCAGAATCGGCTGCAGAAGAAAAAGAGAGCCACCCCTAATGGGACCCCTAG
AGTGCTGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

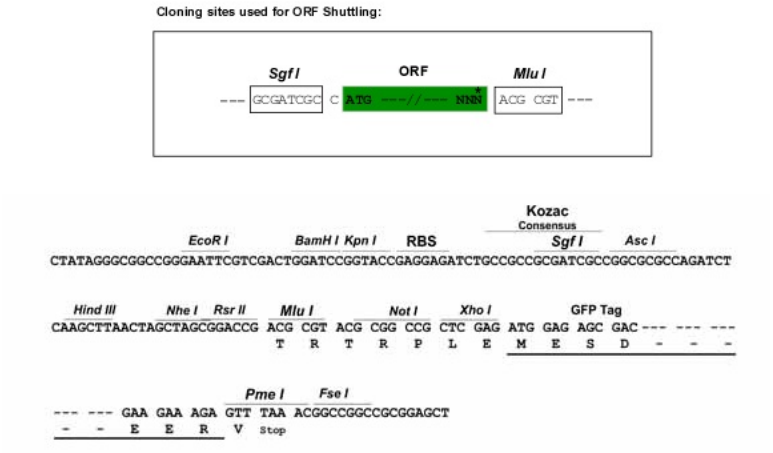
>RG212160 representing NM_021244
Red=Cloning site Green=Tags(s)

MSQVLGKPQPQDEDDAEEEEEEDELVGLADYGDGPDSSDADPDSGTEEGVLDFSDPFSTEVKPRILLMGL
RRSGKSSIQKVVFHKMSPNETLFLESTNKICREDVSNSSFVNFQIWDFPGQIDFFDPTFDYEMIFRGTGA
LIFVIDSQDDYMEALARLHLTVTRAYKVNTDINFEVFIHKVDGLSDDHKIETQRDIHQRANDDLADAGLE
KIHLSFYLTSIYDHSIFEAFSKVVQKLIPQLPTLENLLNIFISNSGIEKAFLFDVVSKIYIATDSTPVDM
QTYELCCDMIDVVIDISCIYGLKEDGAGTPYDKESTAIIKLNNTTVLYLKEVTKFLALVCFVREESFERK
GLIDYNFHCFRKAIHEVFEVRMKVVKSRKVQNRLQKKKRATPNGTPRVLL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021244

ORF Size: 1200 bp

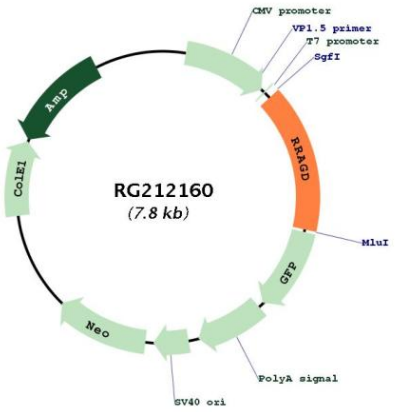
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_021244.5
RefSeq Size:	1453 bp
RefSeq ORF:	1203 bp
Locus ID:	58528
UniProt ID:	Q9NQL2
Cytogenetics:	6q15
Domains:	Gtr1_RagA
Gene Summary:	RRAGD is a monomeric guanine nucleotide-binding protein, or G protein. By binding GTP or GDP, small G proteins act as molecular switches in numerous cell processes and signaling pathways.[supplied by OMIM, Apr 2004]

Product images:



Circular map for RG212160