

Product datasheet for **RG211810**

RASGEFIC (NM_175062) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RASGEFIC
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG211810 representing NM_175062
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGCCACAGACGCTGAGTGCCTCCGACATGGTCACCCAGGCAGCCTCAGCCACCCCCACCGAGCCCA
CAGATGGCGAACAGGCTGGGCAGCCCTCCTGGATGGAGCGCCATCCTCAGCCTCCCTGGAAACTGAT
CCAGCACCTGGTGCCACAGCCGACTACTACCCGAGAAAGCCTACATCTTCACCTTCTGCTGAGCTCT
CGCCTCTTCATCGAGCCCCGGGAGCTCCTGGCCGGGTCTGCCACCTGTGCATCGAGCAGCAGCAGCTGG
ACAAGCCGGTGCTGGACAAGGCCCGGGTCCGGAAGTTCGGCCCCAACTGCTGCAGCTGTTGGCCGAGTG
GACCGAGACCTCCCAAGGGACTTCCAGGAAGAGTCGACTATCGGGCACCTTAAGGACGTCGTGGCCCG
ATCGCCCCCTGTGACGAGGCATACCGGAAGAGGATGCATCAGCTCCTACAGGCTCTGCACCAAGAAGCTGG
CGGCTCTGCCAGGGGCCAGAAGGTCTGGTGGGTGCCGACAAGCCCATCTCCTACAGGACCAAGCCACC
AGCCTCCATCCACAGGGAGCTCCTTGGTGTCTGCAGCGACCCCTACACACTGGCCAGCAGCTGACCCAC
GTGGAAGTGGAGCGGCTGCGGCACATCGGGCCTGAGGAGTTTGTCCAGGCCTTTGTGAACAAGGACCTC
TGGCCAGCACAAAGCCCTGCTTCAGTGACAAGACCAGCAACCTGGAGGCTTATGTGAAATGGTTCAACAG
GCTGTGCTACCTGGTGGCAACTGAGATCTGCATGCCAGCCAAGAAGAAGCAGAGGGGCCAGGTGATTGAG
TTCTTCATCGACGTGGCCCGCGAGTGCTTCAACATCGCAACTTCAACTCCCTCATGGCCATCATCTCCG
GCATGAACATGAGCCCTGTCTCCAGGCTGAAGAAGACCTGGGCCAAAGTGAAGACGGCCAAGTTTTTCAT
CCTCGAGCACCAAGATGGACCAACGGGGAATTTCTGCAACTACAGGACAGCCCTGCGCGGGGCGGCCAC
CGCTCCCTGACGGCCACAGCAGCCGAGAGAAGATTGTCAATTCCTTTCTCAGCCTGCTCATCAAAGACA
TCTACTTCTGAATGAGGGCTGCGCCAACCGCCTTCCAATGGACACGTCACCTTGGAGAAATCCTGGA
GCTGGCCAAGCAGGTGGGGAGTTCATCACCTGGAAACAAGTGGAGTGTCCCTTCGAGCAAGACGCCAGC
ATCACCCACTACCTGTACACCGCCCCCATCTTCAGTGAGGATGGTCTTTATTTGGCTTCTTACGAAAGTG
AGAGCCAGAGAACCAACAGAAAAAGAAAGATGGAAAGCTCTAAGATCTTCTATTTTGGGAAGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



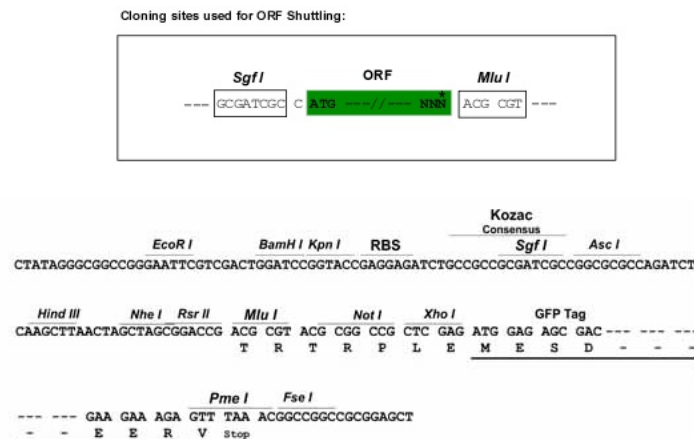
Protein Sequence: >RG211810 representing NM_175062
Red=Cloning site Green=Tags(s)

MPQTLASDMVTPGSLSPPTTEPTDGEQAGQPLLDGAPSSASLETLIQHLVPTADYYPEKAYIFTLLSS
RLFIEPRELLARVCHLCIEQQQLDKPVLDKARVRKFGPKLLQLAEWTETFPDFQEESTIGHLKDVVGR
IAPCDEAYRKMQLLQALHQLAALRQGPEGLVGADKPISYRTKPPASIHRELLGVCSDPYTLAQLTH
VELERLRHIGPEEFVQAFVNDPLASTKPCFSDKTSNLEAYVKWFNRLCYLVATEICMPAKKKQRAQVIE
FFIDVARECFNIGNFNSLMAIISGMNMSPVSRLLKKTWAKVRTAKFFILEHQMDPTGNFCNYRTALRGAH
RSLTAHSSREKIVIPFFSLLIKDIYFLNEGCANRLPNGHVNFKEFLELAKQVGEFITWKQVECPFEQDAS
ITHLYLTAPIFSEDGLYLASESESPENQTEKERWKALRSSILGKT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175062

ORF Size: 1398 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_175062.4](#)

RefSeq Size: 2216 bp

RefSeq ORF: 1401 bp

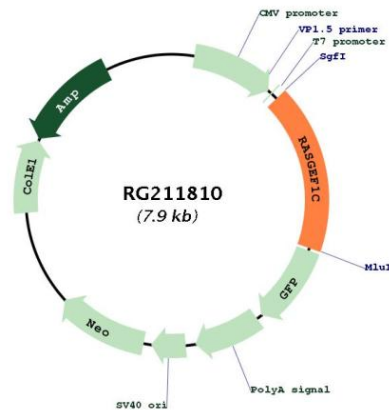
Locus ID: 255426

UniProt ID: [Q8N431](#)

Cytogenetics: 5q35.3

Gene Summary: Guanine nucleotide exchange factor (GEF).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211810