

Product datasheet for **RR211958**

Rasgrf1 (NM_001105753) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rasgrf1 (NM_001105753) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rasgrf1
Synonyms: GNRP; P140 RAS-GRF
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211958 representing NM_001105753
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGAAAGCCATCCGACTGAACGATGGCCACGTCGTGTCCCTGGGACTGCTGGCCAGAGAGACGGCA
CGCGCAAAGGCTACCTGAGCAAGAGGAGTTCGGACAACCCAAAATGGCAAACCAAGTGGTTTGCCTGCT
GCAGAACCTGCTCTTCTACTTCGAAAGTGACTCGAGCTCTCGGCCCTCGGGGCTCTACCTGCTGGAGGGC
AGTATCTGCAAACGCATGCCCTCCCCAAGCGAGGGACCTCCTCCAAGGAGTCCGACAAACAGCGTCATA
GCAGGAGTGGACGTCGACGTAATGTTCTGAGAAGACAACCAACCAGAATCTCAAAAAATTTCAGGCTGGT
GGCAATTGAATTGACTGGGATGGCAGCCACCCTTGAAGTCTCCTTCTCCATAATTAGGACAGAGATCTGT
ACTGTTTCTCCAGCTCCACAAACAAGGATGGGAAACCCAGAAGACTTGTACGCGCTGCGTGACAGAGTGG
AGTCGAAGCGTCTCTCCACCATCCCTGTAGATTGATCATT

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211958 representing NM_001105753
Red=Cloning site Green=Tags(s)

MQKAIRLNDGHVSLGLLAQRDGRKGYLSKRSSDNPKWQTKWFALLQNLIFYFESDSSSRPSGLYLLEG
SICKRMPSPKRGTSSKESDKQRHSRSGRRRNVLRRQPTRISKTFRLVAIELTGMAATLEVSFSIIRTEIC
TVSPAPQTRMGNPEDLSALRDRVESKRLFHHPCRLII

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

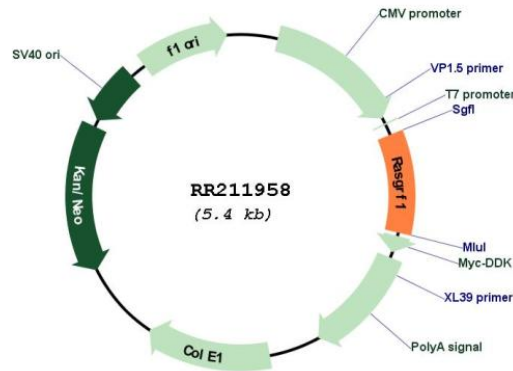


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001105753

ORF Size: 531 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:	<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_001105753.1</u> , <u>NP_001099223.1</u>
RefSeq Size:	1395 bp
RefSeq ORF:	534 bp
Locus ID:	192213
Cytogenetics:	8q31
MW:	20.2 kDa
Gene Summary:	a paternally expressed imprinted gene [RGD, Feb 2006]