

Product datasheet for **RG218501**

QRFP (NM_198180) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: QRFP
Synonyms: 26RFa; P518
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG218501 representing NM_198180
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTAAGGCCTTACCCCTGATCTACTTCTCTCTGCGCTGGGCGCTGCTTCCCTCTACTGGACA
GAAGAGAGCCACAGACGCCATGGGTGGCCTCGGAGCTGGAGAACGCTGGGCCGACCTGGCCATGGGGCC
CCGACCCCACTCCGTGTGGGTTCCTCTCGGTGGCTGAGAGCTTACAGCCACAGGCCCTGCTTGTCTATA
GCCAGGGGCTGCAGACATCGGGCAGAGAGCATGCTGGCTGCAGATTCGCTTCGGGAGGCAGGACGAAG
GCAGTGAGGCCACCGCTTCTCCCTGCTCGGGGGGAGAAGACCAGCGGCCGTTAGGGAACCTGGCTGA
GGAGCTCAATGGCTACAGCAGGAAGAAAGCGGCTTCAGCTTCGCTTCGGTCGGCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218501 representing NM_198180
Red=Cloning site Green=Tags(s)

MVRPYPLIYFLPLGACFPLLDREPTDAMGGLGAGERWADLAMGPRPHSVWGSSRWLRASQPQALLVI
ARGLQTSGREHAGCRFRFRQDEGSEATGFLPAAGEKTSGLGNLAEEELNGYSRKKGFSFRFGRR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_198180

ORF Size: 408 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.

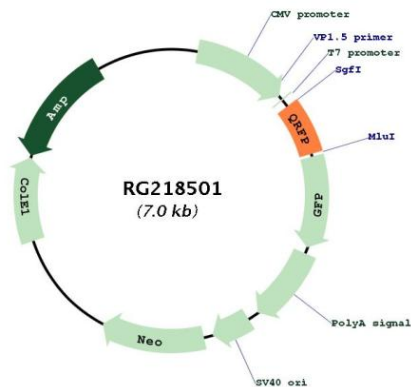
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_198180.3](#)
RefSeq Size: 411 bp
RefSeq ORF: 411 bp
Locus ID: 347148
UniProt ID: [P83859](#)

Cytogenetics: 9q34.12

Gene Summary: This gene encodes a preproprotein that is proteolytically processed to generate multiple protein products. The encoded products are members of the RFamide family of neuropeptides, characterized by their common protein C-terminus consisting of an arginine (R) and an amidated phenylalanine (F). These products include the neuropeptides 26RFa and the N-terminally extended form, 43RFa. Both of these neuropeptides bind to the pyroglutamylated RFamide peptide receptor (QRFPR) and may regulate blood pressure, reproduction and food intake in rodents. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RG218501