

Product datasheet for **RN201864**

Grp (NM_133570) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Grp (NM_133570) Rat Untagged Clone
Tag: Tag Free
Symbol: Grp
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >RN201864 representing NM_133570
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCGGCTCCGAGCTCTCGCTCTTGCTGTTGGCTCTGGTCTCTGCCAGGCTCCCCGGGGCCAGCTG
CCCCGGTGTGCAGGCGCAGGTGGAGGCACAGTCCTGGCCAAGATGTATCCGCGCGGCAGCCACTGGGC
TGTAGGACACTTAATGGGAAGAAGAGCACAGATGAGTTGCCGCCCTGTATGCAGCTGACAGAGATGGC
CTGAAGGAGCAACTGAGGGGATACATCCGCTGGGAAGAAGCTGCAAGGAATTTGCTTGGCCTCCTCGAAG
CCGCGGGGAACAGAAGCCACCAGCCACCTCAGGATCAGCCTCTGGGCAGTCTCCAGCCTACTTGGGATCC
AGAGGATGGCAGCTACTTCAGTGATGCTCAAAATGCTAAGTTGGTAGACTCTCTGCTCCAGTTCTCAAG
GGGAAGGAAGGAAGTCCAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1813_a05.zip
Restriction Sites: Sgfl-MluI
ACCN: NM_133570
Insert Size: 444 bp



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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](#)

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.

RefSeq: [NM_133570.5](#), [NP_598254.2](#)

RefSeq Size: 883 bp

RefSeq ORF: 444 bp

Locus ID: 171101

UniProt ID: [P24393](#)

Cytogenetics: 18q12.1

Gene Summary: increases 5-HT neuronal activity in the hypothalamus PVN; inhibits feeding behavior [RGD, Feb 2006]