

Product datasheet for MR200979

Grp (NM_175012) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Grp (NM_175012) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Grp
Synonyms: B; BLP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200979 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCGCGGCTCGGAGCTCTCGTCTTGCTGTTGGCTCTGGTCTCTGCCAGGCGCCCCGGGGCCAGCTG
 CCCC GTGTCGACAGGCGCAGGTGGAGGCAGGTCTGGCTAAGATGTATCCGCGCGCAGTCACTGGGC
 TGTGGGACTTAATGGGAAAAAGAGCACGGATGAATCCCCGTCCTGTATGCGGCTGACAGAGACGGC
 CTGAAGGAGCAGCTGAGGGGTACGTCCGCTGGGAAGAAGCTGCAAGGGATTTGCTGGACCTCCTAGAAG
 CTGCTGGGAACCAAAGCCACCAGCCACCTCAGCATCCGCCTCTCAGTCTCCAGCCTACTGGGATCCCGA
 GGACGGCAGCTACTTTAACGACGTTCAAACCGCTAAGTTGGTAGACTCTCTGCTCCAGGTTCTCAAGGAA
 AAGGGAGGAAGTCCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200979 protein sequence
 Red=Cloning site Green=Tags(s)

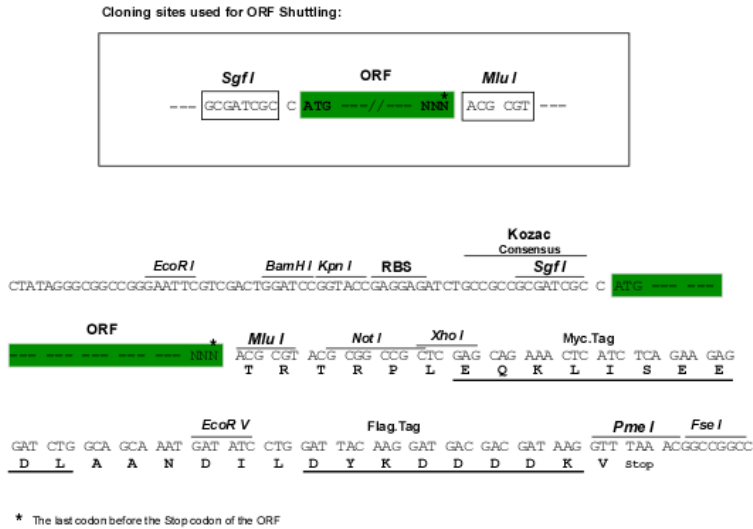
MRGSELSLLLLLALVLCQAPRGPAAAPVSTGAGGGTVLAKMYPRGSHWAVGHLMGKKSTDESPSLYAADDRG
 LKEQLRGYVRWEEAARDLLDLLEAAGNQSHQPPQHPPLSLQPTWDPEDGSYFNDVQAKLVDSLLQVLKE
 KGGTAS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:



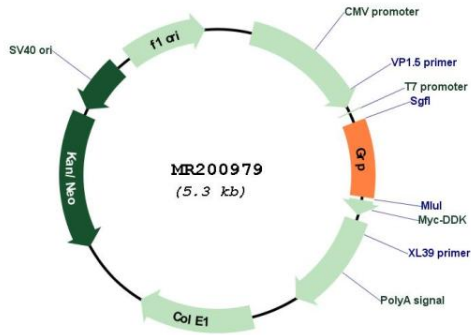
- ACCN: NM_175012
- ORF Size: 441 bp
- OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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.
- RefSeq: [NM_175012.4](#)
- RefSeq Size: 912 bp
- RefSeq ORF: 441 bp
- Locus ID: 225642
- UniProt ID: [Q8R1I2](#)

Cytogenetics: 18 38.98 cM

MW: 15.7 kDa

Gene Summary: This gene encodes a neuropeptide hormone that affects various biological processes such as neuroendocrine regulation, gastrointestinal secretion, nociception, cell proliferation and inflammation. The encoded protein undergoes proteolytic processing to generate multiple mature peptides with biological activity. [provided by RefSeq, Aug 2015]

Product images:



Circular map for MR200979