

Product datasheet for **RC217144**

AGRP (NM_001138) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AGRP (NM_001138) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: AGRP
Synonyms: AGRT; ART; ASIP2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC217144 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

**ATGCTGACCGCAGCGGTGCTGAGCTGTGCCCTGCTGCTGGCACTGCCTGCCACGCGAGGAGCCAGATGG
GCTTGGCCCCATGGAGGGCATCAGAAGGCCTGACCAGGCCCTGCTCCCAGAGCTCCAGGCCTGGGCT
GCGGGCCCCACTGAAGAAGACAACACTGCAGAACAGGCAGAAGAGGATCTGTTGCAGGAGGCTCAGGCCTG
GCAGAGGTACTAGACCTGCAGGACCGCGAGCCCCGCTCCTCACGTCGCTGCGTAAGGCTGCATGAGTCT
GCCTGGGACAGCAGGTGCCTTGCTGTGACCCATGTGCCACGTGCTACTGCCGCTTCTTAATGCCTTCTG
CTACTGCCGAAGCTGGGTACTGCCATGAATCCCTGCAGCCGACC**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence: >RC217144 protein sequence
Red=Cloning site Green=Tags(s)

MLTAAVLSCALLLALPATRGAQMGLAPMEGIRRPDQALLPELPLGLRAPLKKTTAEQAEEDLLQEAAQAL
AEVLDLQDREPRSSRRCVRLHESCLGQQVPCCDPCATCYCRFFNAFCYCRKLG TAMNPCSRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6601_d10.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_001138

ORF Size: 396 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_001138.2](#)

RefSeq Size: 783 bp

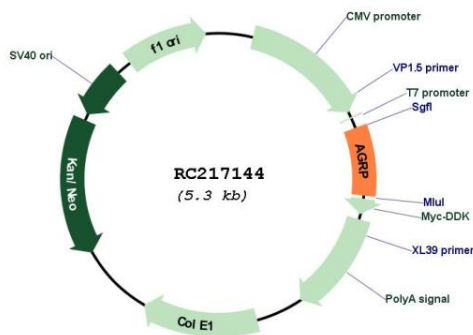
RefSeq ORF: 399 bp

Locus ID: 181

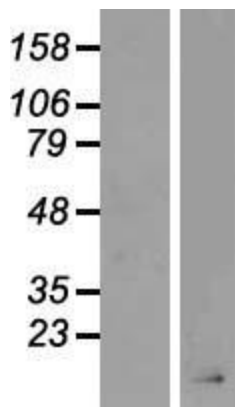
UniProt ID: [O00253](#)

Cytogenetics: 16q22.1
Protein Families: Druggable Genome, Secreted Protein
Protein Pathways: Adipocytokine signaling pathway

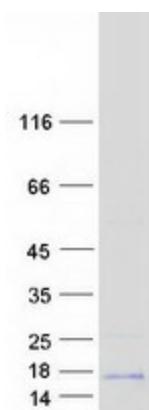
MW: 14.4 kDa
Gene Summary: This gene encodes an antagonist of the melanocortin-3 and melanocortin-4 receptor. It appears to regulate hypothalamic control of feeding behavior via melanocortin receptor and/or intracellular calcium regulation, and thus plays a role in weight homeostasis. Mutations in this gene have been associated with late on-set obesity. [provided by RefSeq, Dec 2009]

Product images:


Circular map for RC217144



Western blot validation of overexpression lysate (Cat# [LY416046]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC221553] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AGRP protein (Cat# [TP317144]). The protein was produced from HEK293T cells transfected with AGRP cDNA clone (Cat# RC217144) using MegaTran 2.0 (Cat# [TT210002]).