

Product datasheet for RG221553

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OriGene Technologies, Inc.

AGRP (NM_007316) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: AGRP (NM_007316) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: AGRP

Synonyms: agouti related protein; AGRT; Agrt; ART; Art; ASIP2; MGC118963; orexigenic neuropeptide

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG221553 representing NM_007316

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CTACTGCCGCAAGCTGGGTACTGCCATGAATCCCTGCAGCCGCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221553 representing NM_007316

Red=Cloning site Green=Tags(s)

MLTAAVLSCALLLALPATRGAQMGLAPMEGIRRPDQALLPELPGLGLRAPLKKTTAEQAEEDLLQEAQAL

AEVLDLQDREPRSSRRCVRLHESCLGQQVPCCDPCATCYCRFFNAFCYCRKLGTAMNPCSRT

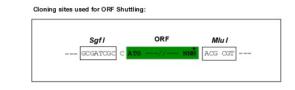
TRTRPLE - GFP Tag - V

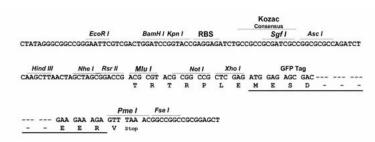
Restriction Sites: Sgfl-Mlul



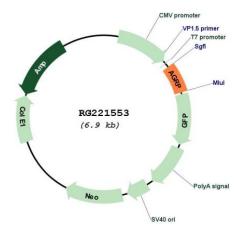


Cloning Scheme:





Plasmid Map:



ACCN: NM_007316

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



AGRP (NM_007316) Human Tagged ORF Clone - RG221553

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: <u>NM 007316.1</u>, <u>NP 015531.1</u>

RefSeq Size:486 bpRefSeq ORF:398 bpLocus ID:181

Cytogenetics: 16q22.1

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Adipocytokine signaling pathway

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 20091