

Product datasheet for MG200702

Gpha2 (NM_130453) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Gpha2 (NM_130453) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Gpha2

Synonyms: GPA2; zsig51

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >MG200702 representing NM_130453

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCCCATGGCACCACGAGTCTTGCTCCTTTGCCTGCTGGGCCTGGCAGTCACTGAAGGGCATAGCCCAG
AGACAGCCATCCCAGGCTGCCACTTGCACCCCTTCAATGTGACGGTGCGCAGTGATCGCCTCGGCACTTG
CCAGGGCTCCCACGTGGCACAGGCCTGTGTAGGACACTGTGAGTCTAGTGCTTTCCCTTCCCGGTACTCT
GTGCTGGTGGCCAGTGGCTATCGGCACAACATCACCTCTTCCTCCCAGTGCTGCACCATCAGCAGCCTCA
GAAAGGTGAGGGTGTGGCTGCAGTGCGTGGGGAACCAGCGTGGGGAGCTTGAGATCTTTACTGCAAGGGC

CTGCCAGTGTGATATGTGCCGTTTCTCCCGCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200702 representing NM_130453

Red=Cloning site Green=Tags(s)

MPMAPRVLLLCLLGLAVTEGHSPETAIPGCHLHPFNVTVRSDRLGTCQGSHVAQACVGHCESSAFPSRYS

VLVASGYRHNITSSSQCCTISSLRKVRVWLQCVGNQRGELEIFTARACQCDMCRFSRY

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



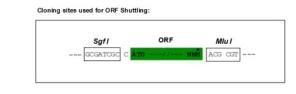
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

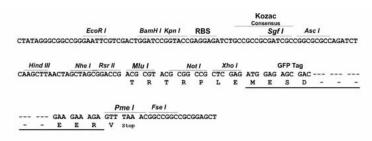
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

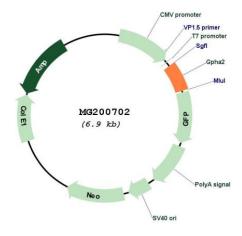


Cloning Scheme:





Plasmid Map:



ACCN: NM 130453

ORF Size: 384 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



Gpha2 (NM_130453) Mouse Tagged ORF Clone - MG200702

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 130453.3</u>, <u>NP 569720.1</u>

RefSeq Size: 626 bp
RefSeq ORF: 387 bp
Locus ID: 170458
UniProt ID: Q925Q5
Cytogenetics: 19 A

Gene Summary: Functions as a heterodimeric glycoprotein hormone with GPHB5 able to bind and activate the

thyroid-stimulating hormone receptor (TSHR), leading to increased cAMP production. Plays a

central role in controlling thyroid cell metabolism.[UniProtKB/Swiss-Prot Function]