

Product datasheet for **MC207853**

Gpha2 (NM_130453) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gpha2 (NM_130453) Mouse Untagged Clone
Tag: Tag Free
Symbol: Gpha2
Synonyms: GPA2; zsig51
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC207853 representing NM_130453
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

**ATGCCCATGGCACCACGAGTCTTGCTCCTTTGCCTGCTGGGCTGGCAGTCACTGAAGGGCATAGCCCAG
AGACAGCCATCCCAGGCTGCCACTTGCACCCCTTCAATGTGACGGTGCGCAGTGATCGCCTCGGCACTTG
CCAGGGCTCCCAGTGGCACAGGCTGTGTAGGACACTGTGAGTCTAGTGCTTTCCCTTCCCGTACTCT
GTGCTGGTGGCCAGTGGCTATCGGCACAACATCACCTTCTCTCCAGTGCCTGCACCATCAGCAGCCTCA
GAAAGGTGAGGGTGTGGCTGCAGTGCCTGGGGAACCAGCGTGGGAGCTTGAGATCTTTACTGCAAGGGC
CTGCCAGTGTGATATGTGCCGTTTCTCCCGCTACTAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_130453

Insert Size: 387 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_130453.3](#), [NP_569720.1](#)

RefSeq Size: 624 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]