

Product datasheet for **RR209461**

Gpha2 (NM_133619) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Gpha2 (NM_133619) Rat Tagged ORF Clone

Tag: Myc-DDK

Symbol: Gpha2

Synonyms: Gpa2; Zsig51

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RR209461 representing NM_133619
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCATGGCACCTCGAGTCTTGCTCTTCTGCCTGCTGGGTCTGGCAGTCACTGAAGGGCATGGCCTGG
 AGGCAGCCGTCCCAATCCCAGGCTGCCACTTGACCCCTTTAACGTGACAGTGCGAAGTGATCGCCATGG
 CACCTGCCAGGGCTCCCATGTGGCACAGGCGTGTGTAGGACACTGTGAGTCTAGTGCTTTCCCTTCTCGG
 TACTCTGTGCTGGTTGCCAGTGGCTATCGACACAACATCACCTCTGTCTCTCAGTGCTGTACCATCAGCA
 GCCTTAAAAAGGTGAGGGTGTGGCTGCACTGCGTGGGGAACCAGCGTGGGAGCTCGAGATCTTCACGGC
 TAGGGCCTGCCAGTGTGATATGTCCGCTCTCTCCGCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR209461 representing NM_133619
 Red=Cloning site Green=Tags(s)

MPMAPRVLLFCLLGLAVTEGHGLEAAVPIPGCHLHPFNVTVRSDRHGTCQGSQSHVAQCVGHCESSAFPSR
 YSVLVASGYRHNITSVSQCCTISLKKVRVWLHCVGNQRGELEIFTARACQCDMCRLSRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_133619

ORF Size: 390 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_133619.2](#), [NP_598303.1](#)

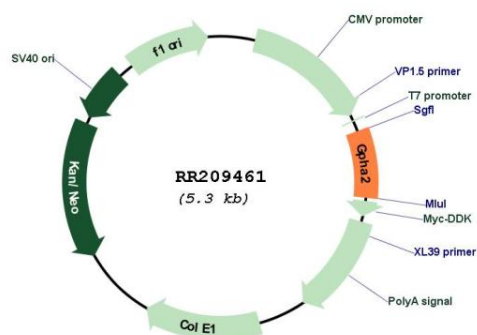
RefSeq Size: 814 bp

RefSeq ORF: 393 bp

Locus ID: 171158

UniProt ID: Q925Q4
 Cytogenetics: 1q43
 MW: 14.2 kDa
 Gene Summary: expressed in pancreatic acinar cells [RGD, Feb 2006]

Product images:



Circular map for RR209461