

Product datasheet for **RG209104**

GPR97 (ADGRG3) (NM_170776) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR97 (ADGRG3) (NM_170776) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR97
Synonyms:	GPR97; PB99; PGR26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG209104 representing NM_170776
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACGCCAGGGGCTGGGGCCCTGCTCCTGCTCCTCCTGCTCCCGACCTCAGGTCAGGAAAAGC
 CCACCGAAGGGCCAAGAAACACCTGCCTGGGGAGCAACAACATGTACGACATCTTCAACTGAATGACAA
 GGCTTTGTGCTTACCAAGTGCAGGCAGTCGGGCAGCGACTCCTGCAATGTGAAAACTGCAGAGATAC
 TGGCTAAACTACGAGGCCATCTGATGAAGGAAGTTTGACGCAGAAGGTGAACACGCCTTTCTGAAGG
 CTTTGGTCCAGAACCTCAGCACCAACACTGCAGAAGACTTCTATTTCTCTCTGGAGCCCTCAGGTTCC
 GAGGCAGGTGATGAAGGACGAGGACAAGCCCCCTGACAGAGTGCAGCTTCCCAAGAGCCTTTTTCGATCC
 CTGCCAGGCAACAGGTCTGTGGTCCGCTTGGCCGTACCATTCTGGACATTGGTCCAGGGACTCTTTCA
 AGGGCCCCGGCTCGGCCTGGGAGATGGCAGCGCGGTGTTGAACAATCGCCTGGTGGGTTTGAGTGTGGG
 ACAAATGCATGTACCAAGCTGGCTGAGCCTCTGGAGATCGTCTTCTCTACCAGCGACCCCCCTAAC
 ATGACCCTCACCTGTGTATTCTGGGATGTGACTAAAGGGACCACTGGAGACTGGTCTTCTGAGGGCTGCT
 CCACGGAGGTGAGACTGAGGGGACCGTGTGCTGCTGTGACCACCTGACCTTTTTCGCCCTGCTCCTGAG
 ACCCACCTTGACCAGTCCACGGTGCATATCCTCACACGCATCTCCAGGGCGGGCTGTGGGGTCTCCATG
 ATCTTCTGGCCTTACCATTATCTTTATGCCTTCTGAGGCTTCCCGGGAGAGGTTCAAGTCAGAAG
 ATGCCCAAAGATCCACGTGGCCCTGGGTGGCAGCCTGTCTCCTGAATCTGGCCTTCTGGTCAATGT
 GGGGAGTGGCTCAAAGGGTCTGATGCTGCCTGCTGGGCCCGGGGGCTGTCTTCCACTACTTCTGCTC
 TGTGCCTCACCTGGATGGCCCTGAAGCCTTCCACCTTACCTGCTCGTGTGAGGCTTCAACACCT
 ACTTCGGGCACTACTTCTGAAGCTGAGCCTGGTGGGCTGGGGCTGCCGCCCTGATGGTCAATGGGCAC
 TGGGAGTGCCAAACAGCTACGGCCTCTACACCATCCGTGATAGGGAGAACCACCTCTCTGGAGCTATGC
 TGGTCCGTGAAGGGACAACCATGTACGCCCTCTATACCCGTCCACGGCTACTTCTCATCACCTTCC
 TCTTTGGCATGGTGGTCTGGCCCTGGTGGTCTGGAAGATCTTACCCTGTCCCCTGCTACAGTGGTCAA
 GGAGCGGGGAAGAACCAGGAAGAAGGTGCTCACCTGCTGGCCCTCTCGAGCCTGGTGGGTGACATGG
 GGGTTGGCCATCTTACCCCGTTGGCCCTCTCCACCGTCTACATCTTTGCACTTTTCAACTCCTTGAAG
 GTGTCTTCTGCTGCTGGTTCACCATCCTTACCTCCCAAGTCAGAGCACCACAGTCTCCTCCTCTAC
 TGCAAGATTGGACCAGGCCCACTCCGCATCTCAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209104 representing NM_170776
 Red=Cloning site Green=Tags(s)

MATPRGLGALLLLLLLPTSGQEKPTEGPRNTCLGSNNMYDIFNLNDKALCFKCRQSGSDSCNVENLQRY
 WLNIEAHLMEGLTQKVNTPLKALVQNLSTNTAEDFYFLEPSQVPRQVMKDEKPPDRVRLPKSLFRS
 LPGNRSVRLAVTILDIGPGTLFKGPRLGLDGSGLVNNRLVGLSVGMHVTKLAEPLEIVFVSHQPPPN
 MTLTLCVFDVTKGTTGDWSSEGCSTEVRPEGTVCCDHLTFALLLRPTLDQSTVHILTRISQAGCGVSM
 IFLAFTIILYAFRLSRERFKSEDAKIHVALGGSLFLLNLAFLVNVGSGSKGSDAACWARGAVFHYFLL
 CAFTWMGLEAFHLYLLAVRVFNTYFGHYFLKLSLVGWGLPALMVIPTGSANSYGLYTIIRDRENRTSLELC
 WFREGTMYALYITVHGYFLITFLFGMVVLAALVVKIFTLSRATVVKERKGNRKKVLTLLGLSSLVGVTW
 GLAIFTPLGLSTVYIFALFNSLQGVFICCWFTILYLPSTTVSSSTARLDQAHSASQE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_170776

ORF Size: 1647 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_170776.3](#), [NP_740746.3](#)

RefSeq Size: 2681 bp

RefSeq ORF: 1650 bp

Locus ID: 222487

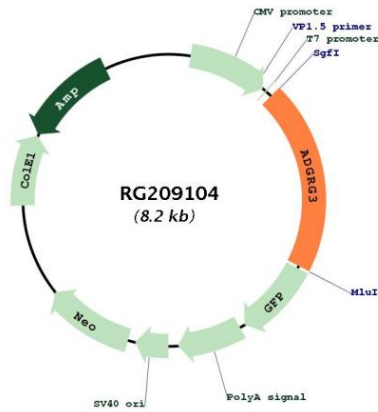
UniProt ID: [Q86Y34](#)

Cytogenetics: 16q21

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: Orphan receptor that regulates migration of lymphatic endothelial cells in vitro via the small GTPases RhoA and CDC42 (PubMed:24178298). Regulates B-cell development (By similarity). Seems to signal through G-alpha(q)-proteins (PubMed:22575658).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209104