

Product datasheet for **RG208167**

GIMAP1 (NM_130759) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GIMAP1 (NM_130759) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GIMAP1
Synonyms:	HIMAP1; IAN2; IMAP1; IMAP38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208167 representing NM_130759 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGGAAGGAAAGATGGCGACAGATGAAGAAAATGTCTATGGTTTAGAAGAGAACGCTCAGTCCCGGC
AGGAGTCCACGCGGAGGCTCATCCTTGTGGGAGAACAGGGGCCGGAAGAGCGCCACTGGGAACAGCAT
CCTGGGCCAGAGACGGTCTTCTCCAGGCTGGGGCCACGTCTGTGACCAGGGCTGCACCAGGGCAGC
CGCAGGTGGGACAAGTCCACGTGGAAGTCGTGGACACTCCGGACATTTTCAGCTCCAAGTGTCCAAGA
CAGATCCTGGCTGTGAGGAGAGAGGTCACTGCTACCTGCTCTCGGCCCGGACCCACGCGCTGCTCCT
GGTGACCCAGTTGGGTCGGTTCACCGCCAGGACCAGCAGCGGTGAGGCAGGTGAGGGACATGTTCCGGG
GAGGACGTCTAAAATGGATGGTCATCGTCTTACCAGGAAGGAGGACCTGGCCGGGGGCTCCCTGCACG
ATTACGTGAGCAACACAGAGAACCAGGCGCTTGCAGGAGCTGGTGGCCGAGTGCAGGGGCGGGTCTGTGC
CTTTGATAACCGGGCCACCGGCCGGGAGCAGGAAGCCAGGTGGAGCAGCTGCTGGGATGGTTCGAGGGC
TTGGTGTGGAGCACAAGGGCGCCATTACTCCAACGAGGTGTATGAGCTGGCGCAGGTGCTGCGCTGGG
CAGGCCCTGAGGAGCGGCTCCGGCGGTGGCGGAGCGGTGGCAGCCAGGTCAGAGGAGGCCATGGGG
CGCCTGGCTGTCGGCCCGGCTGTGGAAGTGGCTGAAGTCCCCAGGAGCTGGAGGCTGGCCTGGCCCTG
CTGCTGGGGGCGCGCTCCTGTCTGGGTGCTGCTCCACAGCGGTGGTTCGGAGCGGTTGCGGAGGTGCG
GGCCTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208167 representing NM_130759
 Red=Cloning site Green=Tags(s)

MGGRKMATDEENVYGLEENAQSRQESTRRLILVGRTGAGK SATGNSILGQRRFFSRLGATSVTRACTTGS
 RRWDKCHVEVVDTPDIFSSQVSKTDPGCEERGH CYLLSAPGPHALLLV TQLGRFTAQDQQAVRQVRDMFG
 EDV LKWMVIVFTRKEDLAGGSLHDYVSNTENRALRELVAECGGRVCAFDNRATGREQEAQVEQLLGMVEG
 LVLEHKG AHYSNEYVELAQVLRWAGPEERLRRVAERVAARVQRRPWGAWLSARLWKWLKSPRSWRLGLAL
 LLGGALLFWVLLHRRWSEAVA EVGPD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_130759

ORF Size: 918 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_130759.4](#)

RefSeq Size: 1248 bp

RefSeq ORF: 921 bp

Locus ID: 170575

UniProt ID: [Q8WWP7](#)

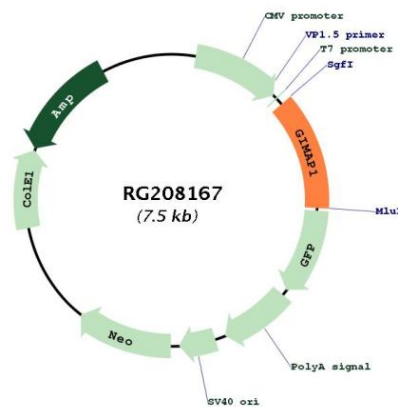
Cytogenetics: 7q36.1

Domains: AIG1

Protein Families: Transmembrane

Gene Summary: This gene encodes a protein belonging to the GTP-binding superfamily and to the immuno-associated nucleotide (IAN) subfamily of nucleotide-binding proteins. In humans, the IAN subfamily genes are located in a cluster at 7q36.1. This gene is thought to be involved in the differentiation of T helper (Th) cells of the Th1 lineage, and the related mouse gene has been shown to be critical for the development of mature B and T lymphocytes. Read-through transcription exists between this gene and the downstream GIMAP5 (GTPase, IMAP family member 5) gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG208167