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Product datasheet for RC203978

GIMAP5 (NM_018384) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GIMAP5 (NM_018384) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GIMAP5
Synonyms:	HIMAP3; IAN-5; IAN4; IAN4L1; IAN5; IMAP3; IROD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC203978 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAGGATTCCAGAGGGGCAAATATGGAACTATGGCTGAAGGTAGATCAGAAGATAACTTGTCTGCAA
CACCACCGGCATTGAGGATTATCCTAGTGGGCAAAACAGGCTGCGGGAAAAGTGCCACAGGGAACAGCAT
CCTTGGCCAGCCCGTGTTTGAGTCCAAGCTGAGGGCCCAGTCAGTGACCAGGACGTGCCAGGTGAAAACA
GGAACATGGAACGGGAGGAAAGTCCTGGTGGTTGACACGCCCTCCATCTTTGAGTCACAGGCCGATACCC
AAGAGCTGTACAAGAACATCGGGGACTGCTACCTGCTCTCTGCCCCGGGGCCCCACGTCCTGCTTCTGGT
GATCCAGCTGGGGCGTTTCACTGCTCAGGACACAGTGGCCATCAGGAAGGTGAAAGAGGTCTTTGGGACA
GGGGCCATGAGACATGTGGTCATCCTCTTCACCCACAAAGAGGACTTAGGGGGCCAGGCCCTGGATGACT
ATGTAGCAAACACGGACAACTGCAGCCTGAAAGACCTGGTGCGGGAGTGTGAGAGAAGGTACTGTGCCTT
CAACAACTGGGGCTCTGTGGAGGAGCAGAGGCAGCAGCAGGCAGAGCTCCTGGCTGTGATTGAGAGGCTG
GGGAGGGAGCGAGAGGGCTCCTTCCACAGCAATGACCTCTTCTTGGATGCCCAGCTGCTCCAAAGAACTG
GAGCTGGGGCCTGCCAGGAAGACTACAGGCAGTACCAGGCCAAAGTGGAATGGCAGGTGGAGAAGCACAA
GCAAGAGCTGAGGGAGAACGAGAGTAACTGGGCATACAAGGCGCTCCTCAGAGTCAAACACTTGATGCTT
TTGCATTATGAGATTTTTGTTTTTCTATTGTTGTGCAGCATACTTTTTTTCATTATTTTTCTGTTCATCT
TTCATTACATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC203978 protein sequence
Red=Cloning site Green=Tags(s)

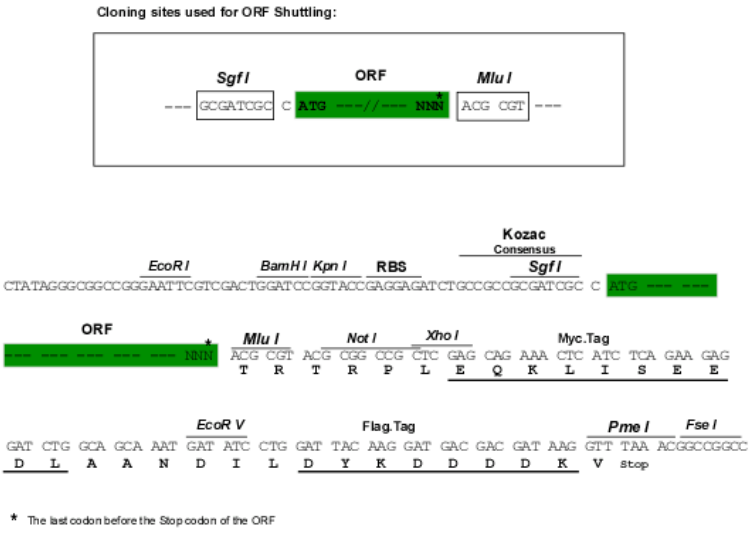
MGGFQRGKYGTMAEGRSEDNLSATPPALRIILVGKTGCGKSATGNSILGQPVFESKLRAQSVTRTCQVKT
GTWNGRKVLVVDTPSIFESQADTQELYKNIGDCYLLSAPGPHVLLLVIQLGRFTAQDTVAIRKVKEVFGT
GAMRHVVILFTHKEDLGGQALDDYVANTDNCSLKDLVRECERRYCAFNNWGSVEEQRQQQAELLAVIERL
GREREGSFHSNDLFLDAQLLQRTGAGACQEDYRQYQAKVEWQVEKHKQELRENESNWAYKALLRVKHLML
LHYEIFVFLLLCSILFFIIFLFIFHYI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6422_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018384

ORF Size: 921 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_018384.4

RefSeq Size: 1895 bp

RefSeq ORF: 924 bp

Locus ID: 55340

UniProt ID: Q96F15

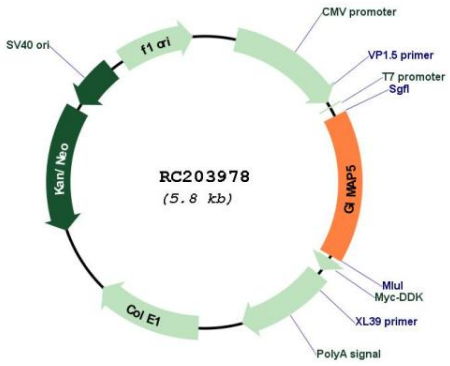
Cytogenetics: 7q36.1

Protein Families: Transmembrane

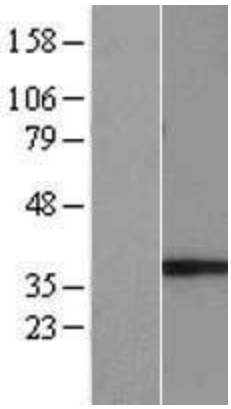
MW: 34.8 kDa

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 encodes an antiapoptotic protein that functions in T-cell survival. Polymorphisms in this gene are associated with systemic lupus erythematosus. Read-through transcription exists between this gene and the neighboring upstream GIMAP1 (GTPase, IMAP family member 1) gene. [provided by RefSeq, Dec 2010]

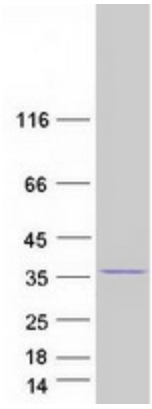
Product images:



Circular map for RC203978



Western blot validation of overexpression lysate (Cat# [LY413083]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203978 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GIMAP5 protein (Cat# [TP303978]). The protein was produced from HEK293T cells transfected with GIMAP5 cDNA clone (Cat# RC203978) using MegaTran 2.0 (Cat# [TT210002]).