

## Product datasheet for **RC220758**

### **GIMAP8 (NM\_175571) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GIMAP8 (NM_175571) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GIMAP8
Synonyms:	IAN-9; IAN6; IAN9; IANT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC220758 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGTCAGAGCAGAGCTGCCAGATGTCCGAAGTCCGGCTCCTCCTCTGGGAAAATGCCGCTCGGGAAAA  
GTGCCACAGGAAATGCCATTCTGGGCAAACATGTGTTCAAGTCCAAGTTCAGTGATCAGACAGTGATCAA  
AATGTGCCAGAGAGAGATTGGGTCTGAGAGAAAGGAAGTTGTGGTAATTGACACCCCTGACCTTTTC  
TCCTCAATAGCTTGTGCTGAAGACAAGCAACGCAACATCCAACACTGCTTGGAGCTCTCTGCTCCAGCC  
TCCATGCTCTGCTCTTGGTAATTGCCATCGGCCATTTACAAGGGAGGATGAGGAAACAGCCAAGGGCAT  
CCAACAAGTGTGGAGCTGAAGCCAGGAGGCACATCATTATTGTCTTCACTCGGAAGGATGATTTGGGG  
GATGACTTGTGCAAGATTTCAATGAAAAAACAACCTCTCAAGCAGTTGGTTCAAGACTATGAGGGCC  
GATACTGCATTTCAACAACAAGACCAATAGTAAGGATGAGCAGATCACCCAGGTGTTGGAGCTCCTTCG  
CAAGTTGAGTCTTTGGTGAATACGAACGGAGGACCCTATCATGTGAAGTCAAACTGAAGGCAGCAGG  
TTTCAAGATTGTGTAATGAAGCTGCATCTCAAGAGGGAGACAAGCCACAGGGCCCAAGGGAAAGGCAGC  
TGCACTCCACAGGACCCGAGCAGAATCCGGGGACATCAGAACTGACAGTCTCCTTGTGGGGAAACGCGG  
TGCTGGAAAAAGTGCAGCAGGAAACAGCATTCTGGGGAGGAGGCCTTTTCAGACCGGATTTAGTGAGCAG  
TCAGTAACCCAGAGCTTCTTGTCTGAGAGCAGAAGCTGGAGAAAAAGAAAGTTTCGATCATTGATGCTC  
CGGACATCTCATCTTTAAGAACATTGACTCAGAAGTTAGAAAACACATCTGTACAGGCCCCCATGCCTT  
CCTGCTGGTGACACCACTGGGCTTTTACTAAGAATGATGAGGCAGTGTGAGCACCATCCAAAACAAT  
TTTGGAGAAAAATCTTTGAGTACATGATCATACTTCTTACCAGGAAAGAAGATTTAGGGGATCAGGATC  
TAGATACGTTCTTAAGAAACAGCAATAAAGCTCTCTATGGTCTCATCCAGAAGTGTAAAAACAGATATAG  
TGCTTCAACTACCGGGCAACAGGAGAAGAAGAGCAAAGGCAGGCGGACGAGCTCCTGGAAAAAATTGAG  
AGCATGGTGCATCAGAATGGGAACAAGCATTGTGTTTTAGAGAAAAAGAAACCTGAACATTGTCTTG  
TGGGGAGAAGCGGGACTGGGAAGAGTGCAGCCGGAACTATCTCTGGGAGCCTCGTCTTACCTCTCG  
GCTCCGGGCCAGCCAGTCACCAAGACCAGCCAGAGTGGCAGGAGGACATGGGACGGACAGGAGGTGGTG  
GTTGTGGACACTCCTTCTTCAACCAGATGCTGGATGTCGAAAAGGACCCATCCCGTTAGAAAGGAGG  
TCAAGCGCTGTTGTCTGCTGTGAAAAAGGGACACATTTTTGTCTGGTGTCCAGCTGGGACGATT  
CACTGAAGAGGACAAAACAGCTGTGGCGAACTGGAGGCCATCTTGGAGCAGACTTACGAAATACGCG  
ATTATGCTGTTACCCGGAAGGAAGACCTAGGGCGGGGAATTTGGAAGACTTCAAGAACTCAGATA  
ACAAAGCCCTTCGGCGCATTTTTAAAAAGTGTGGCGGGCAGTTTGTGCTTTAACAACAAGAAACAGG  
CCAGGCCAGGAAACCCAGGTGAAAGCTTTTTAACAAAGGTCAATGATCTGAGAAAAGAAAGTGGGTGG  
TCCGGGTATCCCATACACAGGAGAACGTGAGCAAACTAATTAATAATGTCCAGGAAATGTCCCAAGCCG  
AAAACTCCTTAAAAATTAATAGGTATTTACAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC220758 protein sequence  
 Red=Cloning site Green=Tags(s)

MSEQSCQMSELRLLLL GKCRSGKSATGNAILGKHVFKSKFSDQTVIKMCQRESWVL RERKVVVIDTPDLF  
 SSIACAEDKQRNIQHCL ELSAPSLHALLLVIAIGHFTREDEETAKGIQQVFGAEARRHIIIVFTRKDDL  
 GDDLLQDFIEKNKPLKQLVQDYEGRYCIFNNKTNKDEQITQVLELLRKVESLVNTNGGPYHVNFKTEGSR  
 FQDCVNEAASQEGDKPQGP RERQLQSTGPEQNPGTSELTVLLVGKRGAGKSAAGNSILGRQAFQTGFSEQ  
 SVTQSFLSESRWRKKKVSIIIDAPDISSLKNIDSEVRKHICTGPHAFLLVPLGFYTKNDEAVLSTIQNN  
 FGEKFFEYMIILLTRKEDLGDQDLDTFLRNSNKALYGLIQKCKNRYSAFNRYRATGEEEQRADELLEKIE  
 SMVHQNGNKHCVFREKETLNI VLVGRSGTGKSATGNSILGSLVFTSRLRAQPVTKTSQSGRRRTWDGQEVV  
 VVDTPSFNQMLDVEKDP SRLEEEVKRCLSCCEKGD TFFVLVFQLGRFTEEDKTAVAKLEAIFGADFTKYA  
 IMLFTRKEDLGAGNLED FMKNSDNKALRRIFKCKGRRVCAFNNKETGQAQETQVKALLTKVNDLRKESGW  
 SGPHTQENVSKLIK NVQEMSQA EKLKLNIGILQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6458\\_c09.zip](https://cdn.origene.com/chromatograms/mk6458_c09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_175571

**ORF Size:** 1995 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\\_175571.4](#)

**RefSeq Size:** 3952 bp

**RefSeq ORF:** 1998 bp

**Locus ID:** 155038

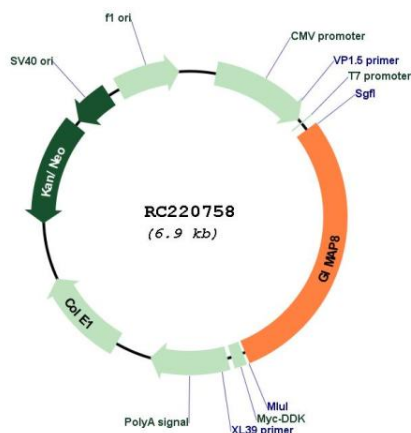
**UniProt ID:** [Q8ND71](#)

**Cytogenetics:** 7q36.1

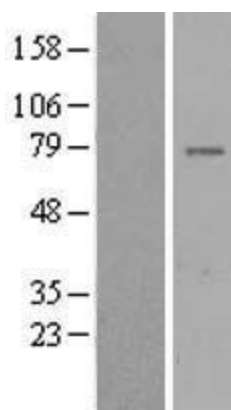
**MW:** 74.9 kDa

**Gene Summary:** This gene encodes a protein belonging to the GTP-binding superfamily and to the immun-associated nucleotide (IAN) subfamily of nucleotide-binding proteins. In humans, the IAN subfamily genes are located in a cluster at 7q36.1. [provided by RefSeq, Jul 2008]

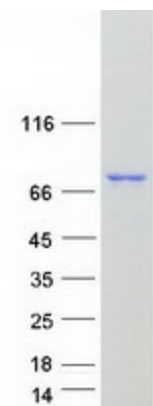
### Product images:



Circular map for RC220758



Western blot validation of overexpression lysate (Cat# [LY406278]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220758 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GIMAP8 protein (Cat# [TP320758]). The protein was produced from HEK293T cells transfected with GIMAP8 cDNA clone (Cat# RC220758) using MegaTran 2.0 (Cat# [TT210002]).