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# Product datasheet for MR222729

## Iigp1 (NM_021792) Mouse Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Tag:** | Myc-DDK |
| **Symbol:** | Iigp1 |
| **Synonyms:** | 2900074L10Rik; AI046432; AW111922; Ifgga1; Iigp; Irga6 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>MR222729 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTCAGCTGTTCTCTTCACCTAAGAGTGATGAGAATAATGATTTGCCCTCCAGCTTTACTGGTTATT
TTAAGAAATTTAATACGGGAAGAAAAATCATTTCTCAAGAGATCCTCAATTTGATTGAATTAAGGATGAG
AAAAGGGAATATTCAGTTGACAAACTCTGCAATCAGTGATGCATTAAAAGAAATCGATAGTAGTGTGCTC
AATGTTGCTGTCACCGGGGAGACGGGATCAGGGAAGTCCAGCTTCATCAATACCCTGAGAGGCATTGGGA
ATGAAGAAGAAGGTGCAGCTAAAACTGGGGTGGTGGAGGTAACCATGGAAAGACATCCATACAAACACCC
CAATATACCCAATGTGGTTTTTTGGGACCTGCCTGGGATTGGAAGCACAAATTTCCCACCAAACACTTAC
CTGGAGAAAATGAAGTTCTATGAGTACGATTTCTTCATTATTATTTCGGCCACACGCTTCAAGAAAAATG
ATATAGACATTGCCAAAGCAATCAGCATGATGAAGAAGGAATTCTACTTCGTGAGAACCAAGGTGGACTC
TGACATAACAAATGAAGCAGATGGCAAACCTCAAACCTTTGACAAAGAAAAGGTCCTGCAGGACATCCGC
CTTAACTGTGTGAACACCTTTAGGGAGAATGGCATTGCTGAGCCACCAATCTTCCTGCTCTCTAACAAAA
ATGTTTGTCACTATGACTTCCCCGTCCTGATGGACAAGCTGATAAGTGACCTCCCTATCTACAAGAGACA
CAATTTTATGGTCTCCTTACCCAATATCACAGATTCAGTCATTGAAAAGAAGCGGCAATTTCTGAAGCAG
AGGATTTGGCTGGAAGGATTTGCTGCTGACCTAGTGAATATCATCCCTTCTCTGACCTTTCTCTTGGACA
GTGATTTGGAGACTCTGAAGAAAAGCATGAAATTCTACCGCACTGTGTTTGGAGTGGATGAAACATCTTT
GCAGAGATTAGCTAGGGACTGGGAAATAGAGGTGGATCAGGTGGAGGCCATGATAAAATCTCCTGCTGTG
TTCAAACCTACAGATGAAGAAACAATACAAGAAAGGCTTTCAAGATATATTCAGGAGTTCTGTTTGGCTA
ATGGGTACTTACTTCCTAAAAATAGTTTTCTTAAAGAAATATTTTACCTGAAATATTATTTCCTTGACAT
GGTGACTGAGGATGCTAAAACTCTTCTTAAAGAGATATGTTTAAGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:**

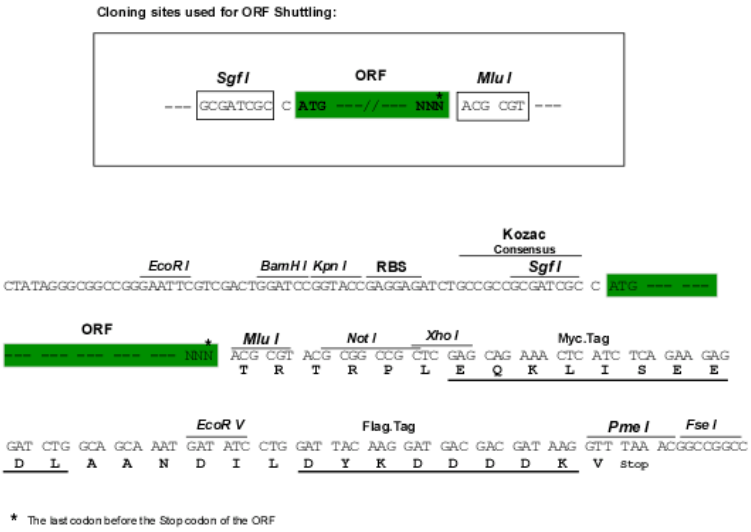
>MR222729 protein sequence
Red=Cloning site Green=Tags(s)

MGQLFSSPKSDENNDLPSSFTGYFKKFNTGRKIISQEILNLIELRMRKGNIQLTNSAISDALKEIDSSVL
NVAVTGETGSGKSSFINTLRGIGNEEEGAAKTGVVEVTMERHPYKHPNIPNVVFWDLPGIGSTNFPPNTY
LEKMKFYEYDFFIIISATRFKKNDIDIAKAISMMKKEFYFVRTKVDSDITNEADGKPQTFDKEKVLQDIR
LNCVNTFRENGIAEPPIFLLSNKNVCHYDFPVLMDKLISDLPIYKRHNFMVSLPNITDSVIEKKRQFLKQ
RIWLEGFAADLVNIIPSLTFLLDSDLETLKKSMKFYRTVFGVDETSLQRLARDWEIEVDQVEAMIKSPAV
FKPTDEETIQERLSRYIQEFCLANGYLLPKNSFLKEIFYLKYYFLDMVTEDAKTLLKEICLRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_021792

**ORF Size:** 1239 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** NM_021792.5

**RefSeq Size:** 2966 bp

**RefSeq ORF:** 1242 bp

**Locus ID:** 60440

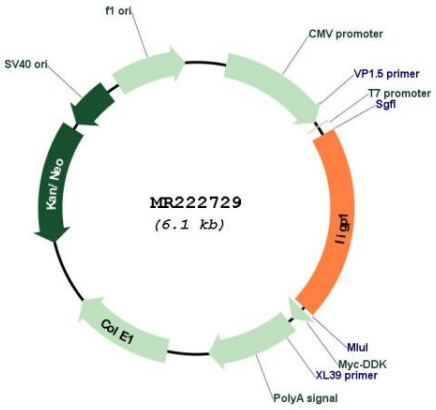
**UniProt ID:** Q9QZ85

**Cytogenetics:** 18 D3

**MW:** 47.6 kDa

**Gene Summary:** GTPase with low activity. Has higher affinity for GDP than for GTP. Plays a role in resistance to intracellular pathogens. Required for disruption of the parasitophorous vacuole formed following T.gondii infection and subsequent killing of the parasite. Mediates resistance to C.trachomatis infection by targeting bacterial inclusions to autophagosomes for subsequent lysosomal destruction.[UniProtKB/Swiss-Prot Function]

## Product images:




Circular map for MR222729