

Product datasheet for **MG201990**

Itpa (NM_025922) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Itpa (NM_025922) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Itpa
Synonyms: 2010016I08Rik; AU020102; Itp
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201990 representing NM_025922
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCGTCTTTGGTCGGGAAGAAGATCGTGTTTGTGACGGGAAACGCCAAGAAGCTGGAGGAGGTCA
 TTCAGATTCTCGGAGATAATTTCCATGCACTTTGGAGGCTCAGAAAATTGACCTGCCTGAGTACCAGGG
 AGAACCGGATGAGATTTCCATACAGAAGTGTGGGAGGCAGCTCGACAGGTGCAGGGCCCTGCTGGTG
 GAAGATACCTGTCTGTGCTTTAACGCACCTGGGGACTGCCTGGCCCTACATAAAATGGTTCCTACAGA
 AGCTGAAGCCTGAAGTCTCCACCAGCTCCTGGCCGGCTTGAAGACAAATCGGCCTATGCACTCTGCAC
 ATTCGCTCTCAGCACTGGGGACCCAAGCCAGCCAGTGCTTCTCTTCAGAGGCCAGACCTCGGGACAGATT
 GTGATGCCACGAGGCAGCCGGGACTTTGGCTGGGATCCCTGCTTTCAGCCTGATGGATATGAGCAAACGT
 ATGCAGAGATGCCAAAGTCTGAGAAGAACCATTCTCATCGGTTCCGGGCCCTGCACAAGCTACAGGA
 GTACTTTAGTGTGGCTGCTGGGGCTGGTGACCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201990 representing NM_025922
 Red=Cloning site Green=Tags(s)

MAASLVGKKIVFVTGNAKKLEEVIIQILGDNFPCTLEAQKIDLPEYQGEPEISIQKCREAARQVQGPVLV
 EDTCLCFNALGGLPGPYIKWFLQKLKPEGLHQLLAGFEDKSAYALCTFALSTGDPSPVLLFRGQTSQGI
 VMPRGRSDFGWPCFQPDGYEQTYAEMPKEKNTISHRFRALHKLQEYFVAAGAGDH

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

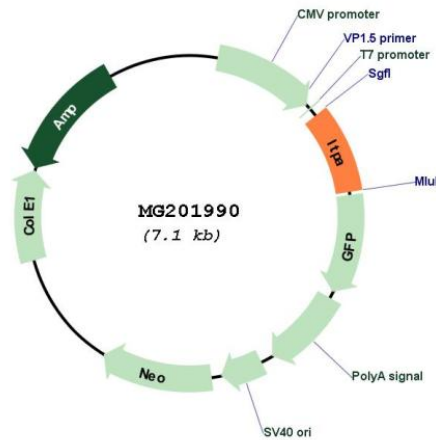


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Cloning Scheme:



Plasmid Map:



ACCN: NM_025922

ORF Size: 594 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_025922.3](#)

RefSeq Size: 1264 bp

RefSeq ORF: 597 bp

Locus ID: 16434

UniProt ID: [Q9D892](#)

Cytogenetics: 2 63.24 cM

Gene Summary: Pyrophosphatase that hydrolyzes the non-canonical purine nucleotides inosine triphosphate (ITP), deoxyinosine triphosphate (dITP) as well as 2'-deoxy-N-6-hydroxylaminopurine triphosphate (dHAPTP) and xanthosine 5'-triphosphate (XTP) to their respective monophosphate derivatives. The enzyme does not distinguish between the deoxy- and ribose forms. Probably excludes non-canonical purines from RNA and DNA precursor pools, thus preventing their incorporation into RNA and DNA and avoiding chromosomal lesions. [UniProtKB/Swiss-Prot Function]