

## Product datasheet for MR220522

### Mtif3 (NM\_029581) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mtif3 (NM_029581) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtif3
Synonyms:	2810012L14Rik; AI414549
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220522 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGTTCTTCTGATGAGGTTGATGCTACAACTACAAAGCTTGACCATAACTTAATTGGAAGATGTT  
TGCAAAGACACGCTGTGAAGCCAGATCCAGCACAGCTGTCCTGTCTGCGTCCACCCAAAGCTGTTGTA  
CCTGACTTCTGAAAAGTTTTAGTACTGCTGGAGACCCACAGGGTGAGAGGAAACAGAAAAGAAGGGAT  
GCTTTCTCTAACCCGGCCGGAAGATTAGTGAGCGGATTATCCGCGTCTGGATGAGAAGGGCATGGACC  
TGGGGATGATGCATCGAGCAGATGTGATCAGACTCATGAACAAGCAGGACCTGAGGCTGGTGCAGAGGAA  
CACCAGCTCAGAGCCACCGGAGTACCAGCTTATGACCGGAGAGCAGATCCACCAGGAGCGGCTAAAGCTC  
CGGGAACAGGAAAAGGCCAAACCCAAAACCTGGACCAACTATGACGAAAAGAGCTCGTTTTCTTTCAAATA  
TTGGACAGCACGATTTAGACACCAAGAGTAAACAGATCCAGCAGTGGATAGAGAAGAAATACCACGTTCA  
AGTCACGATAAAGAGGAGGAAAGATGCGGAGCAGTCAGAGGAGGAAACGGAGGAGATATTTAACCAGATT  
CTCCAGACTATGCCTGACATAGCAACCTTCTCAAGCAGACCAAAGCCATCAGAGGAGGGACTGCTTCCA  
TGTGTGTTTTTCGTCACCTTGAGCAAGAAAGAAGAAAAGGCGTACAGAGAATCCCAGGAGGCCAGAGAAG  
AGACACTTTGAGCAAAGACGACGACGGAACAGCAAAGAGTCCGGATGTTGTGTCTCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR220522 protein sequence  
 Red=Cloning site Green=Tags(s)

MAVLLMRLMLQTTKLDHNLIGRCLQRHAVKPDPAQLSLSASTPKLLYL TSAKGFSTAGDPQGERKQKRRD  
 AFSNTGRKISERIIIRVLDEKGM DLGMMHRADVIRLMNKQDLRLVQRNTSSEPPEYQLMTGEQIHQERLKL  
 REQEKAKPKTGPTMTKELVFSSNIGQHDLDTKSKQIQQWIEKKYHVQVTIKRRKDAEQSEETEEIFNQI  
 LQTMPDIATFSSRPKAIIRGGTASMCVFRHL SKKEEKAYRESQESQRRD T LSKDDDDGNSKESDVVCQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_029581

**ORF Size:** 831 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\\_029581.4](#), [NP\\_083857.1](#)

**RefSeq Size:** 4979 bp

**RefSeq ORF:** 831 bp

**Locus ID:** 76366

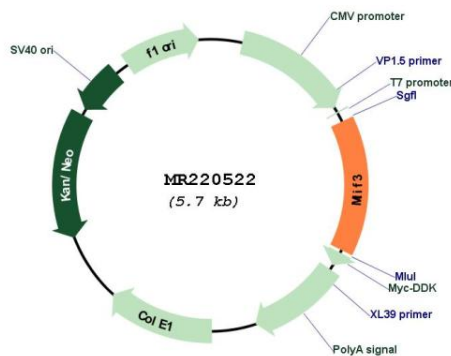
**UniProt ID:** [Q9CZD5](#)

**Cytogenetics:** 5 G3

**MW:** 31.7 kDa

**Gene Summary:** IF-3 binds to the 28S ribosomal subunit and shifts the equilibrium between 55S ribosomes and their 39S and 28S subunits in favor of the free subunits, thus enhancing the availability of 28S subunits on which protein synthesis initiation begins.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR220522