

Product datasheet for **MG220522**

Mtif3 (NM_029581) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mtif3 (NM_029581) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Mtif3
Synonyms: 2810012L14Rik; AI414549
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220522 representing NM_029581
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGTTCTTCTGATGAGGTTGATGCTACAACTACAAAGCTTGACCATAACTTAATTGGAAGATGTT
 TGCAAAGACACGCTGTGAAGCCAGATCCAGCACAGCTGTCCTGTCTGCGTCCACCCAAAGCTGTTGTA
 CCTGACTTCTGCAAAGTTTTAGTACTGCTGGAGACCCACAGGGTGAGAGGAAACAGAAAAGAAGGGAT
 GCTTTCTCTAACACCGGCCGGAAGATTAGTGAAGGATTATCCGCGTCTGGATGAGAAGGGCATGGACC
 TGGGGATGATGCATCGAGCAGATGTGATCAGACTCATGAACAAGCAGGACCTGAGGCTGGTGCAGAGGAA
 CACCAGCTCAGAGCCACCGGAGTACCAGCTTATGACCGGAGAGCAGATCCACCAGGAGCGGCTAAAGCTC
 CGGGAACAGGAAAAGGCCAAACCCAAAACCTGGACCAACTATGACGAAAAGAGCTCGTTTTCTTCAATA
 TTGGACAGCAGATTTAGACACCAAGAGTAAACAGATCCAGCAGTGGATAGAGAAGAAATACCACGTTCA
 AGTCACGATAAAGAGGAGGAAAGATGCGGAGCAGTCAGAGGAGGAAACGGAGGAGATATTTAACCAGATT
 CTCCAGACTATGCCTGACATAGCAACCTTCTCAAGCAGACCAAAGCCATCAGAGGAGGGACTGCTTCCA
 TGTGTGTTTTTCGTCACCTTGAGCAAGAAAGAAGAAAAGGCGTACAGAGAATCCCAGGAGGCCAGAGAAG
 AGACACTTTGAGCAAAGACGACGACGGAACAGCAAAGAGTCCGGATGTTGTGTGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220522 representing NM_029581
 Red=Cloning site Green=Tags(s)

MAVLLMRLMLQTTKLDHNLIGRCLQRHAVKPDPAQLSLSASTPKLLYL TSAKGFSTAGDPQGERKQKRRD
 AFSNTGRKISERIIRVLDEKGM DLGMMHRADVIRLMNMQDLRLVQRNTSSEPPEYQLMTGEQIHQERLKL
 REQEKAKPKTGPTMTKELVFSSNIGQHDLDTKSKQIQQWIEKKYHVQVTIKRRKDAEQSEETEEIFNQI
 LQTMPDIATFSSRPKAIIRGGTASMCVFRHL SKKEEKAYRESQESQRRDTLSKDDDGNSKESDVVCQ

TRTRPLE - GFP Tag - V

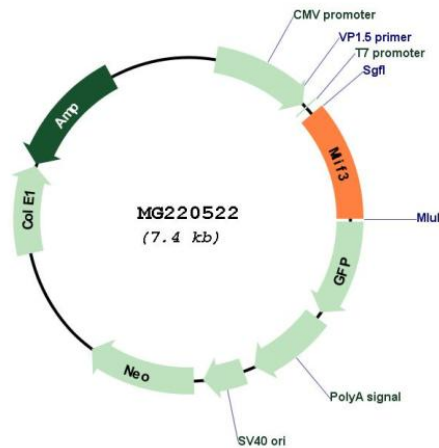
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_029581

ORF Size: 828 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:	<ol style="list-style-type: none">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:	1967 bp
RefSeq ORF:	831 bp
Locus ID:	76366
UniProt ID:	Q9CZD5
Cytogenetics:	5 G3
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]