

Product datasheet for **MG220110**

Trit1 (NM_025873) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trit1 (NM_025873) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trit1
Synonyms:	2310075G14Rik; AI314189; AI314635; AV099619; IPT; MOD5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220110 representing NM_025873
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCTGCGGCTGCTGCACGAGCAGTTCTGTGAGCTCTGGATTCCGAGGCCTGCGGCGAACACTGC
 CACTTGTAGTGATTCTCGGGGCTACTGGGACTGGCAAGTCCACCTGGCTCTGCAGTTAGGCCAGCGGCT
 CGGCGCGGAGATCGTCAGCGCCGACTCCATGCAGGTCTATGAAGGGCTAGACATCATACCAATAAGGTC
 TCTGCCCAAGAGCAGAAGATGTGCCAGCACCATGATCAGCTTTGTGGATCCACTTGTGACCAGCTACA
 CCGTGGTGGACTTTAGGAACAAAGCAACGGCCCTGATTGAAGATATTTTTGCTCGAGACAAAATCCCAT
 TGTGGTGGGAGGAACCAATTATTACATTGAATCTCTGCTCTGGAAAGTTCTTATTACTACCAAGCCCCAG
 GAGATGGGCACCTGGAAAGTGGTTGATCGGAAAGTAGAGCTTGAAAAGGAAGATGGTCATGAACTCCATA
 AACGGCTAAGCCAGGTGGACCCAGAAATGGCCGCAAGCTACACCCGCATGACAAACGCAAAGTGGCCAG
 GAGCTTGAAGTGTGAAAGAAACAGGAATCTCTCACAGTGAATTCCTTCATCGTCAGCAGCAGAGGAA
 GCGGGTGGTCTCTTGGAGGCCCTCTCAGGTTCCCTAACCCATGCATCCTCTGGCTCCATGCTGACCAGG
 CAGTTCTAGATGAGCGCTTGGATAAAAAGAGTGGATGACATGCTTCTGCTGCCGGACTCTTGGAGAGCTGAG
 AGGTTTTACAGACGTTATAATCTTAAGAACATTTAGAAAATAGCCAGGACTATCAACACGGTATCTTC
 CAGTCAATTGGCTTCAAGGAATTCACGAGTACCTGACCACTGAGGGGAAATGCACACCAGAGACTAGTA
 ACCAGCTTCTAAAGAAAGGTATTGAGGCTCTGAAACAAGTAACTAAGAGATATGCCCGGAAACAGAACCG
 ATGGGTTAAAAACCGCTTTTGGACAGACCTGGGCCAGTGTCCCCCGGTATATGGCTTAGAAGTATCT
 GATGTTTCCAAGTGGGAGGAGTCTGTTCTGGAACCTGCTCTCAATATAGTACAAAGTTTCATCCAGGGTC
 ACAAACTACAGCCATGCCAGTGAAGATGGCATAACAATGAAAGTGAGAACAGAGAAAGTACCACATGTC
 TGACCTCTGTGACCGGATCATCATTGGGACCGGGAATGGGCAGCACATTTAAAAATCCAAATCTCACTTG
 CACCAATTGAAGAAAAGAAGGTTGGACTTAGACGCTGTCAGTGCCACAGGAAGTCAAAGTAATTCCC
 CAGACTGTGACCCGGAACGCATCGAGGGGAATCCTCGGGCAGCACAAATCAAGAGCTGAAGGCCAGTGT
 T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG220110 representing NM_025873
 Red=Cloning site Green=Tags(s)

MAAAAAARAVPVSSGFRGLRRTLPLVVILGATGTGKSTLALQLGQRLGGEIVSADSMQVVEGLDIITNKV
 SAQEQKMCQHMHISFVDPLVTSYTVVDFRNKATALIEDIFARDKIPVVGNTNYYIESLLWKVLITTKPQ
 EMGTGKVVDRKVELEKEDGHELHKRLSQVDEMAAKLHPHDKRKVARSLQVFEETGISHSEFLHRQHAEE
 GGGPLGGPLRFPNPCILWLHADQAVLDERLDRVDDMLAAGLLEELRGFHRRYNLKNISENSQDYQHGI
 QSIGFKEFHEYLTTEGKCTPETSQQLKKGIEALKQVTKRYARKQNRWVKNRFLSRPGSPVPVYGLEVS
 DVSKWEESVLEPALNIVQSF IQGHKPTAMPVKMAYNESENKRSYHMCDLCDRIIIGDREWAHLKSKSHL
 HQLKRRRLDLDAVSATGSQNSPDCDPERIEGESSGQHNQELKASV

TRTRPLE - GFP Tag - V

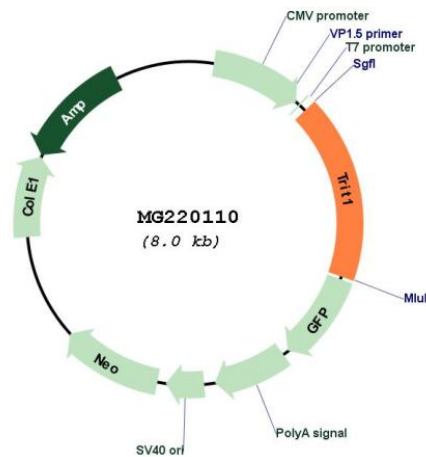
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_025873

ORF Size: 1401 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_025873.3](#)

RefSeq Size: 2059 bp

RefSeq ORF: 1404 bp

Locus ID: 66966

UniProt ID: [Q80UN9](#)

Cytogenetics: 4 D2.2

Gene Summary: Catalyzes the transfer of a dimethylallyl group onto the adenine at position 37 of both cytosolic and mitochondrial tRNAs, leading to the formation of N6-(dimethylallyl)adenosine (i(6)A).[UniProtKB/Swiss-Prot Function]