

## Product datasheet for **MR220110**

### **Trit1 (NM\_025873) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Trit1 (NM_025873) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trit1
Synonyms:	2310075G14Rik; AI314189; AI314635; AV099619; IPT; MOD5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR220110 representing NM\_025873  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGCTGCGGCTGCTGCACGAGCAGTTCTGTGAGCTCTGGATTCCGAGGCCTGCGCGGAACACTGC  
 CACTTGTAGTGATTCTCGGGCTACTGGGACTGGCAAGTCCACCTGGCTCTGCAGTTAGGCCAGCGGCT  
 CGGCGGCAGATCGTCAGCGCCGACTCCATGCAGGTCTATGAAGGGCTAGACATCATACCAATAAGGTC  
 TCTGCCAAGAGCAGAAGATGTCCAGCACCATGATCAGCTTTGTGGATCCACTTGTGACCAGCTACA  
 CCGTGGTGGACTTTAGGAACAAAGCAACGGCCCTGATTGAAGATATTTTTGCTCGAGACAAAATCCCAT  
 TGTGGTGGGAGGAACCAATTATTACATTGAATCTCTGCTCTGGAAAGTTCTTATTACTACCAAGCCCCAG  
 GAGATGGGCACCTGGAAAGTGGTTGATCGGAAAGTAGAGCTTGAAAGGAAGATGGTCATGAACTCCATA  
 AACGGCTAAGCCAGGTGGACCCAGAAATGGCCGCAAGCTACACCCGCATGACAAACGAAAGTGCCAG  
 GAGCTTGAAGTGTGGAAGAAACAGGAATCTCTCACAGTGAATTCCTTCATCGTCAGCAGCAGAGGAA  
 GCGGTTGGTCTCTTGGAGGCCCTCTCAGGTTCCCTAACCCATGCATCCTCTGGCTCCATGCTGACCAGG  
 CAGTTCTAGATGAGCGCTTGGATAAAAAGAGTGGATGACATGCTTGTCTGCCGACTCTTGGAGAGCTGAG  
 AGGTTTTACAGACGTTATAATCTTAAGAACATTTAGAAAATAGCCAGGACTATCAACACGGTATCTTC  
 CAGTCAATTGGCTTCAAGGAATTTACAGGACCTGACCACTGAGGGGAAATGCACACCAGAGACTAGTA  
 ACCAGCTTCTAAAGAAAGGATTGAGGCTCTGAAACAAGTAACTAAGAGATATGCCCGGAAACAGAACCG  
 ATGGGTTAAAAACCGCTTTTGGACAGACCTGGGCCAGTGTCCCCCGGTATATGGCTTAGAAGTATCT  
 GATGTTTCCAAGTGGGAGGAGTCTGTTCTGGAACCTGCTCTCAATATAGTACAAAGTTTCATCCAGGGTC  
 ACAAACTACAGCCATGCCAGTGAAGATGCATACAATGAAAGTGAGAACAAGAGAAGTTACCACATGTG  
 TGACCTCTGTGACCGGATCATCATTGGGGACCGGGAATGGGCAGCACATTTAAAATCCAAATCTCACTTG  
 CACCAATTGAAGAAAAGAAGGTTGGACTTAGACGCTGTGAGTCCACAGGAAGTCAAAGTAATTTCC  
 CAGACTGTGACCCGGAACGCATCGAGGGGAATCCTCGGGCAGCACAAATCAAGAGCTGAAGGCCAGTGT  
 T

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR220110 representing NM\_025873  
 Red=Cloning site Green=Tags(s)

MAAAAAARAVPVSSGFRGLRRTLPLVVLGATGTGKSTLALQLGQRLGGEIVSADSMQVVEGLDIITNKV  
 SAQEQKMCQHMHISFVDPLVTSYTVVDFRNKATALIEDIFARDKIPVVGVTNYYIESLLWKVLITTKPQ  
 EMGTGKVVDKVELEKEDGHELHKRLSQVPEMAAKLHPHDKRKRVARSLQVFEETGISHSEFLHRQHAE  
 GGGPLGGPLRFPNPCILWLHADQAVLDERLDKRVDDMLAAGLLEELRGFHRRYNLKNISENSQDYQHGF  
 QSIGFKEFHEYLTTEGKCTPETSQQLKKGIEALKQVTKRYARKQNRWVKNRFLSRPGSPVPPVYGLEVS  
 DVSKWEESVLEPALNIVQSFIQGHKPTAMPVKMAYNESENKRSYHMCDCDRIIIGDREWAHLKSKSHL  
 HQLKRRRLDLDAVSATGSQSNPDCDPERIEGESSGQHNQELKASV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

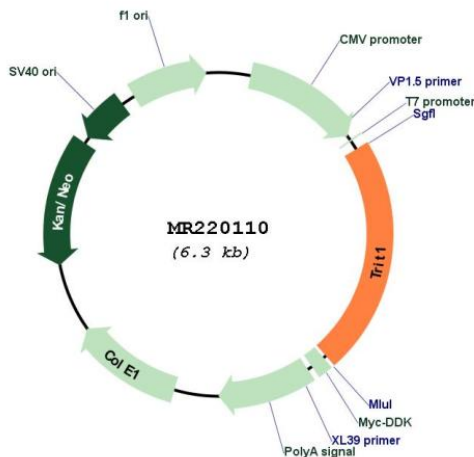
**Restriction Sites:**

SgfI-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

**MW:** 52.9 kDa

**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]