

## Product datasheet for **MR204764**

### Trit1 (BC019812) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trit1 (BC019812) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trit1
Synonyms:	IPT, MOD5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR204764 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGCACTGGGAAAGTGGTTGATCGGAAAGTAGAGCTTAAAAAGGAAGATGGTCATGAACTCCATAAAC  
GGCTAAGCCAGGTGGACCCAGAAATGGCCGCCAAGCTACACCCGCATGACAAACGCAAAGTGGCCAGGAG  
CTTGCAAGTGTGGAAGAAACAGGAATCTCTCACAGTGAATTCCTTCATCGTCAGCACGCAGAGGAAGGC  
GGTGGTCTCTTGAGGGCCCTCTCAGGTTCCCTAACCCATGCATCCTCTGGCTCCATGCTGACCAGGCAG  
TTCTAGATGAGCGCTTGATAAAAAGAGTGGATGACATGCTTGCTGCCGGACTCTTGAAGAGCTGAGAGG  
TTTTACAGACGTTATAATCTTAAGAACATTTAGAAAATAGCCAGGACTATCAACACGGTATCTTCCAG  
TCAATTGGCTTCAAGGAATTTACGAGTACCTGACCACTGAGGGGAAATGCACACCAGAGACTAGTAACC  
AGCTTCTAAAGAAAGGTATTGAGGCTCTGAAACAAGTAACTAAGAGATATGCCCGGAAACAGAACCAGT  
GGTTAAAAACCGCTTTTTGAGCAGACCTGGGCCAGTGTCCCCCGGTATATGGCTTAGAAGTATCTGAT  
GTTTCCAAGTGGGAGGAGTCTGTTCTGGAACCTGCTCTCAATATAGTACAAAGTTTACCCAGGGTCACA  
AACCTACAGCCATGCCAGTGAAGATGGCATAACAATGAAAGTGAACAAGAGAAGTTACCCATGTGTGA  
CCTCTGTGACCGGATCATCATTGGGGACCGGGAATGGGCAGCACATTTAAAATCCAAATCTCACTTGCAC  
CAATTGAAGAAAAGAAGGTTGGACTTAGACGCTGTGAGTGCACAGGAAGTCAAAGTAAATCCCCAG  
ACTGTGACCCGGAACGCATCGAGGGGGAATCCTCGGGGCAGCACAATCAAGAGCTGAAGGCCAGTGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204764 protein sequence  
 Red=Cloning site Green=Tags(s)

MGTGKVVDRKVELEKEDGHLEHKRLSQVDEMAAKLHPHDKRKVARSLQVFEETGISHSEFLHRQHAEEG  
 GGPLGGPLRFPNPCIILWLHADQAVLDERLDKRVDDMLAAGLLEELRGFHRRYNLKNISENSQDYQHGIQ  
 SIGFKEFHEYL TTEGKCTPETSQQLLKKGIEALKQVTKRYARKQNRWVKNRFLSRPGPSVPPVYGLEVSD  
 VSKWEESVLEPALNIVQSF IQGHKPTAMPVKMAYNESENKRSYHMCDCDRIIIGDREWAHLKSKSHLH  
 QLKRRRLDLDAVSATGSQSNPDCDPERIEGESGQHNQELKASV

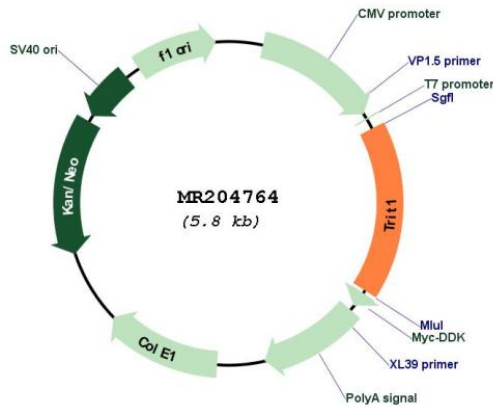
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC019812

**ORF Size:** 978 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC019812</a> , <a href="#">AAH19812</a>
<b>RefSeq Size:</b>	2045 bp
<b>RefSeq ORF:</b>	980 bp
<b>Locus ID:</b>	66966
<b>Cytogenetics:</b>	4 D2.2
<b>MW:</b>	37.2 kDa
<b>Gene Summary:</b>	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]