

## Product datasheet for **MG207125**

### **Mtrf1 (NM\_145960) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mtrf1 (NM_145960) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mtrf1
Synonyms:	A830062K05Rik; MtRF-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207125 representing NM\_145960  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGTCATCACCTGTGTATTTGGCTTTTTCGGAATCCATTTCTCCGTGCGTGCCCCAGAGACATGTCT  
 TCCTTTCTTGTCAGCAGTTCCGACAGATAAGCCTTGATACAAGGCCGTGGAATTTAGACAAAAGAAGAC  
 TCATGTTCTCTATCAGCTCTTAAACAAGAGTTGGTCCAGGGGCTGCTGTATCAAGGCACAAAGGAAGCTT  
 TGGAAACACAAAGCCCTACAGAAGTATATGGAAGACCTGAATAAAGAGTACCAAACCTTGACCAGTGTC  
 TGCAGGGTATCTCTGAGAATGAAGGAGACCGAAGGGCCTTACACAGAAGGCATGCTCAGTTGGCACCCT  
 TGCGGCTGTTTACCAAGAAATTCAGGAGGCCGAACAAGCCATTGAAGAATTAGAGTCATTGTGTAAGT  
 CTAATAAACAAGATGAAAAGCAGTTGCAAGAACTTGTGCAGAAGAAAGGCAAATCATTGATCAGAAGA  
 TCCACAGACTGTATAGTGAGCTTTGGAGCGTTTGTGCTAAGGAGAAGTATGATTGGAGTGACGTTAT  
 TCTAGAAGTGACATCTGGAAGAATACTGGAGGTGATATCTGCCAACAGTTTACCGGGAATATTTGAT  
 ATGTACCAAGAATTATTCATACTATAAGCACTGGAATTTGAGCTGCTGAATTATACACCAGCCGATTATG  
 GTGGACTACATCATGCAGCTGCCCGGATTTCCGGTGACAGTGTTTATAAGCATTGAAGTATGAAGCGCG  
 AATCCATCGAGTTCAGCGCATCCCGAGGTGGCCTGTCATCACGGATGCAGCGCATTACACGGGAACA  
 ATGTCAGTGATTGCTTCCACAGCCAGATGAGGTAGATGTGAAAGTGGATCCCAAGGATCTGCGAGTAG  
 ACACATTCGAGCCAGAGGAGCAGGGGGCAGCATGTTAACACCACCGACAGTGCCGTGAGGCTTGCCA  
 CATTCCCACGGGACTGGTAGTAGAGTGCCAACAAGAACGATCACAGCTGAAAAATAAGAAATAGCTTTG  
 CGTGTGTTGAGAGCCAGACTCTACCAACAGATAATCGAGAAAGACAGGTGTCAGCAGCAGAATGCTAGAA  
 AATTGCAGGTGGGAACAAGAGCCAGTCGGAGAGAATTCGGACATATAATTTACCCAGGATAGAGTAC  
 TGACCACAGGATAGCGTATGAAGTTCGTGACATTAAGGAATTTTACGTGGTGAGAAGTGCCTGGATCAG  
 CTAATTGAGAGATTGCTCAATCAGCAGATGAAGAGGCCATTTCCGAATTTTGGATGAAAGCCTTCAAT  
 CAGTGAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207125 representing NM\_145960  
 Red=Cloning site Green=Tags(s)

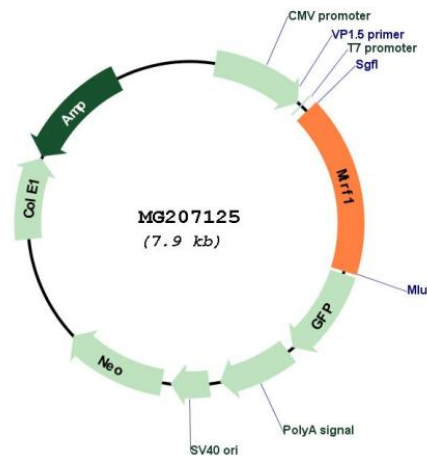
MSHLCIWLFRNPFLRACPQRHVFLSCQQFRQISLDTRPWNFRQKTHVLYQLLNKSWSRGCCHQGTRKL  
 WKHKALQKYMEDLNKEYQTLDQCLQGISENEGDRRALHRRHAQLAPLAAYVQEIQEAEQAIIEESLCKS  
 LNKQDEKQLQELVSEERQIIDQKIHRLYSELLERLVPKEKYDWSVDILEVTSGRITGGDQCQFTREIFD  
 MYQNYSYKHWKFELLYTPADYGGGLHAAARISGDSVYKHLKYEGGIHRVQRIPEVGLSSRMQRHTGT  
 MSVIVLPQPDEVDVKVDPKDLRVDTFRARGAGGQHVNTTDSAVRLVHIPTGLVVECQQERSQLKNKEIAL  
 RVLRLRYQQIIEKDRCQQNARKLQVGTTRAQSERIRTYNFTQDRVTDHRIAYEVVDIKEFLRGEKCLDQ  
 LIERLLQSADEEAISEFLDESLQSVK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_145960

ORF Size: 1338 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.

<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>	<u><a href="#">NM_145960.1</a></u>
<b>RefSeq Size:</b>	1801 bp
<b>RefSeq ORF:</b>	1341 bp
<b>Locus ID:</b>	211253
<b>UniProt ID:</b>	<u><a href="#">Q8K126</a></u>
<b>Cytogenetics:</b>	14 D3
<b>Gene Summary:</b>	Mitochondrial peptide chain release factor that directs the termination of translation in response to the peptide chain non-cognate termination stop codons AGG and AGA. [UniProtKB/Swiss-Prot Function]