

## Product datasheet for RR213414

### Mterf4 (NM\_001037209) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Mterf4 (NM\_001037209) Rat Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Mterf4  
 Synonyms: Mterfd2  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >RR213414 representing NM\_001037209  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCTTCGCTGGGAAGGCAGGTTCTGAATGGCATCGTCTAATGGCCCTTCTGGGCCTGTTGGCTA  
 GGCAGACCTGTCATTTCCAGAAAAGAGAAAAGATGAGTCCTTCTTTGTTTTGTAAGTACTACAGTACC  
 CAGTAGAGGGAACCTTCAAGAGTTTTCCAGCGTTAGACCCAAAAGTACATGCAGGAACCAACACAGG  
 ACACGCTTGTCCGTGCTTTCATGAGGAACAGAGGACATGTATGGGTTCTGAGTCCTTGGAGCTTGAAA  
 GGGCCATCAGTCCCTCCAGGACATGGTTTTGCTGAAGCCCATATTGACAGCTTCTCAATATAACAAC  
 AAGTGTCCATCCTCAACAGTTGCTGGACATAATTTCAGAACTTCTACTCTTGGGGTTGAACCCAGAGCCT  
 GTATTTATGGCCTTGAAGAAAAATCCCCAGTTGCTGAACTGTCTGCCACGCAAATGAAGAGGCGTTCCA  
 GTTACCTTCGGAAGCTCGGCCTTGGAGAAGGAACTGAAGCGGGTGCTTTCTGTTTGCCCTAAGGTTTT  
 CACCATGCGTCAGCAGGACATTGATAATATTGAAAAGTCTCAAGGAGAAGTGCCTGTTTCACAGTACAG  
 CACATCACTGACATTCTGCACAGATGCCAGCTGTTTTGCAGGAGGACCCAGTGAGCTAGAATACAAT  
 TCCAGTATGCATATTTCCAGGATGGGACTGACACATCTAGACATCGTCAGGACCGATTTCCACAGTATTC  
 AATAGCCAAGGTCAAGCAGAGACATTTACTTGGAGCGCTTGGACGGTACCAAACCCCTGATAAGAAG  
 GGGCAGACACAGATCCCTAATCCCTCACTGAAGAACATTCTCAGAGTTTCTGAAGCTGAGTTTTTGCCA  
 GGACAGCCTGTTCTCTGCTGAGGAGTTTGAAGTTTTTAAAAAGCTCTTGGATCAAGAGGAGGAGGATC  
 TGAGAGCCATATGCTGAGGAGGAGGAGGAGGAAGAGGAAGAAGAGGAGGAGGAGCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR213414 representing NM\_001037209  
Red=Cloning site Green=Tags(s)

MASLGRQVPEWHRLMALSWACLARQTCHFRKEKKMSPSLFCKLTTVPSRGNFQEFSSVRPKKYMQEPEHR  
 TRLVPCLHEEQRTCMGSESELELERAISSLDMGFAEAHIDSLNIPQSVHPQQLLDIISELLLLGLNPEP  
 VFMALKKNPQLLKL SATQMKRRSSYLRLGLGEGKLRVLSVCPKVFTMRQQDIDNIVKVLKEKCLFTVQ  
 HITDILHRCPAVLQEDPSELEYKFQYAYFRMGLTHLDIVRTDFLQYSIAKVKQRHIYLERLGRYQTPDKK  
 GQTQIPNPSLKNILRVSEAEFLARTACSSAEFEVFKLLDQEEEESESHMSEEEEEEEEEEEEEELP

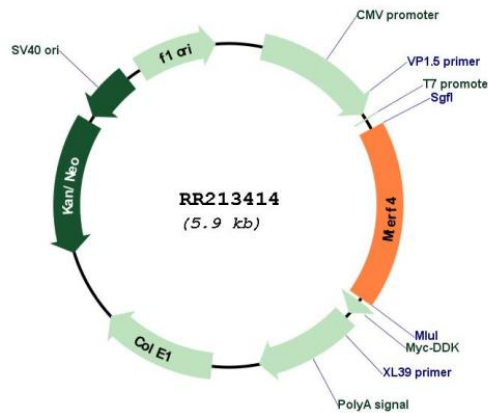
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001037209

**ORF Size:** 1041 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="#">NM_001037209.1</a> , <a href="#">NP_001032286.1</a>
<b>RefSeq Size:</b>	1323 bp
<b>RefSeq ORF:</b>	1044 bp
<b>Locus ID:</b>	363289
<b>UniProt ID:</b>	<a href="#">Q4G078</a>
<b>Cytogenetics:</b>	9q36
<b>MW:</b>	40.4 kDa
<b>Gene Summary:</b>	Regulator of mitochondrial ribosome biogenesis and translation. Binds to mitochondrial ribosomal RNAs 16S, 12S and 7S and targets NSUN4 RNA methyltransferase to the mitochondrial large ribosomal subunit (By similarity).[UniProtKB/Swiss-Prot Function]