

## Product datasheet for MR221928

### Wars2 (NM\_027462) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wars2 (NM_027462) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wars2
Synonyms:	5730427B17Rik; 9430020O07Rik; AI413375; TrpRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221928 representing NM_027462 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCTGTTCTCTGTGCGGAAGGCCCGTGAGTCTGGCGTTTCATCCGGGCACCTCACAAAGGACCCG  
CAGCAACTCTGGCTCCCCAGAAGGAGAGTGGAGAGCGAGTGTCTGGCATTACGCCTACAGGAATCCT  
CCACCTGGGAAATTACCTTGGAGCCATCGAGAGCTGGGTGAACCTACAGGAGGAATATGACACAGTGATA  
TACAGCATCGTGGACCTCACTCCATCACTGTCCCCAAGACCCACCGTCTCCAGCAGAGCATCTGG  
ACATGACTGCTGTGCTTCTTGCCTGTGGCATAAACCCAGAGAAAAGTATCCTTTCCAGCAGTCTAAGGT  
GTCTGAACACACTCAGTTAAGTTGGATCCTCACCTGCATGGTGAGACTGCCTCGATTGCAGCATTTACAC  
CAGTGGAAAGCAAAGGCTGCGAAGCAGAAGCATGATGGGACCGTAGGCGCTGCTCACATACCTGTACTCC  
AGGCAGCAGACATCCTGTGCTACAAGTCCACACACGTTCTGTGCGGGAGGATCAAGTCCAGCACATGGA  
ACTAGTTCAGGATCTAGCTCGAAGTTTCAACCAAAAGTATGGGGAGTTCTTTCCATTGCCAAGTCCATT  
CTCACATCCATGAAGAAAGTAAATCTCTTCGAGACCCCTTCTTCCAAGATGTCAAATCGGACCCGACA  
AACTCGCCACTGTTTGAATAACAGACAGCCAGAGGAGATTGTACAGAAATCCGCAAGGCTGTGACAGA  
CTTCACGTCAGAGGTCACCTACGAGCCGGACAGCAGAGCTGGTGTTCACATGGTGGCGATCCACGCG  
GCCGTGTGCGGCCCTCTCGGTGGAGGAGGTGGTGCAGTAGCGCAGGCTTGGACACTGCACGCTACAAG  
TGCTAGTGGCCGATGCTGTGATTGAGAAATTTGCTCCAATCAGGAAGGAGATTGAGAAATTTGAAAATGGA  
TAAGGACCACTTAAGAAAGGTTTTACTTGTGGATCTGCAAAAGCCAAAGAATTGGCCTCTCCTGTGTT  
GAGGAGGTGAAGAAGTTGGTGGGATTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR221928 representing NM\_027462  
Red=Cloning site Green=Tags(s)

MALFSVRKARECWRFFIRALHKGPAATLAPQKESGERVFSGIQPTGILHLGNYLGAIESWVNLQEEYDVTI  
 YSIVDLHSITVPQDPTVLQQSILDMTAVLLACGINPEKSILFQQSKVSEHTQLSWILTCMVRLPRLQHLH  
 QWKAKAAKQKHDGTVGLLTYPVLQAADILCYKSTHVPVGEDQVQHMLVQDLARSFNQKYGEFFPLPKSI  
 L TSMKKVKSLRDPSSKMSKSDPKLATVRITDSPEEIVQKFRKAVTDFTEVTVYEPDSRAGVSNMVAIHA  
 AVSGLSVEEVVRSAGLDTARYKLLVADAVIEKFAPIRKEIEKLMKDKHLRKVLLVGSAAKELASPVF  
 EEVKKLVGIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9038\\_f03.zip](https://cdn.origene.com/chromatograms/mm9038_f03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_027462

**ORF Size:** 1080 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\\_027462.4](#), [NP\\_081738.2](#)

**RefSeq Size:** 4388 bp

**RefSeq ORF:** 1083 bp

**Locus ID:** 70560

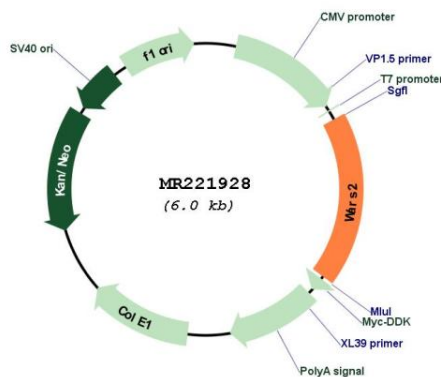
**UniProt ID:** [Q9CYK1](#)

**Cytogenetics:** 3 F2.2

**MW:** 40.6 kDa

**Gene Summary:** Mitochondrial aminoacyl-tRNA synthetase that activate and transfer the amino acids to their corresponding tRNAs during the translation of mitochondrial genes and protein synthesis. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR221928