

## Product datasheet for **MG221928**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Wars2 (NM\_027462) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Wars2  
**Synonyms:** 5730427B17Rik; 9430020O07Rik; AI413375; TrpRS  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG221928 representing NM\_027462  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCTGTTCTCTGTGCGGAAGGCCCGTGAGTCTGGCGCTTCATCCGGGCACCTCACAAAGGACCCG  
 CAGCAACTCTGGCTCCCCAGAAGGAGAGTGGAGAGCGAGTGTCTGGCATTACGCCTACAGGAATCCT  
 CCACCTGGGAAATTACCTTGGAGCCATCGAGAGCTGGGTGAACCTACAGGAGGAATATGACACAGTGATA  
 TACAGCATCGTGGACCTCACTCCATCACTGTCCCCAAGACCCACCGTCTCCAGCAGAGCATCTGG  
 ACATGACTGCTGTGCTTCTTGCCTGTGGCATAAACCCAGAGAAAAGTATCCTTTCCAGCAGTCTAAGGT  
 GTCTGAACACACTCAGTTAAGTTGGATCCTCACCTGCATGGTGAGACTGCCTCGATTGCAGCATTTACAC  
 CAGTGGAAAGCAAAGGCTGCGAAGCAGAAGCATGATGGGACCGTAGGCGCTGCTCACATACCTGTACTCC  
 AGGCAGCAGACATCCTGTGCTACAAGTCCACACACGTTCTGTGCGGGAGGATCAAGTCCAGCACATGGA  
 ACTAGTTCAGGATCTAGCTCGAAGTTTCAACCAAAAGTATGGGGAGTTCTTTCCATTGCCAAGTCCATT  
 CTCACATCCATGAAGAAAGTAAATCTCTTCGAGACCTTCTTCCAAGATGTCAAATCGGACCCCTGACA  
 AACTCGCCACTGTTGAATAACAGACAGCCAGAGGAGATTGTACAGAAATCCGCAAGGCTGTGACAGA  
 CTTACAGTCAGAGGTCACCTACGAGCCGGACAGCAGAGCTGGTGTTC AACATGGTGGCGATCCACGCG  
 GCCGTGTGCGGCCCTCTCGGTGGAGGAGGTGGTGCAGTAGCGCAGGCTTGGACACTGCACGCTACAAG  
 TGCTAGTGGCCGATGCTGTGATTGAGAAATTTGCTCCAATCAGGAAGGAGATTGAGAAATTTGAAAATGGA  
 TAAGGACCACTTAAGAAAGGTTTTACTTGTGGATCTGCAAAAGCCAAAGAATTGGCCTCTCCTGTGTT  
 GAGGAGGTGAAGAAGTTGGTGGGATTCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221928 representing NM\_027462  
Red=Cloning site Green=Tags(s)

MALFSVRKARECWRFIRALHKGPAATLAPQKESGERVFSGIQPTGILHLGNYLGAIESWVNLQEEYDVTI  
 YSIVDLHSITVPQDPTVLQQSILDMTAVLLACGINPEKSILFQQSKVSEHTQLSWILTCMVRLPRLQHLH  
 QWKAKAAKQKHDGTVGLLTYPVLQAADILCYKSTHVPVGEDQVQHMLVQDLARSFNQKYGEFFLPKSI  
 LTSMKKVKSLRDPSSKMSKSDPKLATVRITDSPEEIVQKFRKAVTDFTEVTYEPDSRAGVSNMVAIHA  
 AVSGLSVEEVVRSAGLDTARYKLLVADAVIEKFAPIRKEIEKLMKMDKHLRKVLLVGSAKAKELASPVF  
 EEVKLVGIL

TRTRPLE - GFP Tag - V

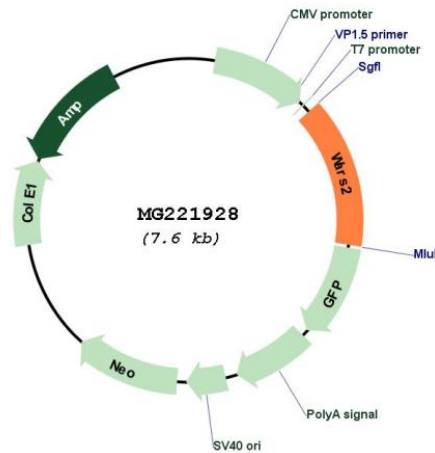
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_027462

<b>ORF Size:</b>	1080 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_027462.4</a> , <a href="#">NP_081738.2</a>
<b>RefSeq Size:</b>	4388 bp
<b>RefSeq ORF:</b>	1083 bp
<b>Locus ID:</b>	70560
<b>UniProt ID:</b>	<a href="#">Q9CYK1</a>
<b>Cytogenetics:</b>	3 F2.2
<b>Gene Summary:</b>	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]