

## Product datasheet for **MG207621**

### Wars (BC046232) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wars (BC046232) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wars
Synonyms:	TrpRS; WRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG207621 representing BC046232  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGACATGCCAGTGGCGAGTCTGCACCTCTCCACTGGAGCTGTTCAACAGCATAGCTACTCAAG  
 GGGAGCTCGTGAGTCCCTCAAAGCTGGAAATGCACAAAAGATGAGATTGATTCTGCAGTAAAGATGTT  
 GTTATCATTAAAAATGAGCTATAAGGCCCCATGGGGGAGGAGTACAAGCTGGCTGCCCTCTGGGAAC  
 CCAACAGCTGGGAGAAATTGTGACTCTGATGCCACAAAAGCCAGCGAGGATTTTGTGGATCCATGGACGG  
 CGCGGACAAGCAGTGCAAAGGCATCGACTATGACAAGCTCATTGTTTCAAGTTTGGAAAGCAGCAAAATTGA  
 CAAAGAGCTGATAAACCGAATAGAGCGAGCCACTGGCCAAAGACCCGACCGCTTCTCGCCGGGGCATC  
 TTCTTCTCCACCGAGATATGAATCAAATTCTGGATGCCTATGAAAATAAGAAGCCATTCTACCTGTACA  
 CAGGCAGGGGCCCTCTCCGAAGCAATGCATCTGGGTATCTCGTCCCCTTTATTTTACAAAAGTGGCT  
 ACAGGATGTGTTCAATGTGCCTTTGGTATCCAGATGTCTGACGACGAGAAGTACCTGTGGAAGGACTTG  
 ACTCTGGAGCAGGCATATAGCTACACCGTAGAAAATGCAAAGGACATCATTGCCTGTGGCTTCGACATCA  
 AAAAACTTTTCTCTCTGATCTTGAGTATATGGGGCAGAGCCCGGGCTTCTACAGGAACGTGGTGAA  
 GATTTCAGAAGCACGTACCTTCAACCAAGTCAAAGGCATTTTTCGGCTTTACGGACAGTACTGCATCGGG  
 AAGATCAGTTTTCTGTGTCCAGGCCCGCCATCGTTTCCAGCAACTTTTCCCGAAGATCTTCCGAGACA  
 GGACAGATATCCAGTGCCTATCCCGTGTGCCATTGACCAGGATCCGACTTCAGAATGACAAGGGACGT  
 GGCCCCAGGATCGGCCATCCTAAACCTGCCCTGCTGACTCGACCTTCTCCCTGCCCTGCAGGGCGCT  
 CAGACCAAGATGAGTCCAGTACCCCACTCTCCATCTTCTCACTGACACGGCCAAGCAGATCAAGA  
 GCAAGGTCAACAAGCATGCATTTTCTGGAGGAAGAGATACTGTGGAGGAGCACAGGCAAGTTGGGGCAA  
 CTGTGAAGTGGATGTATCCTTTCATGTATCTGACCTTCTTCTTGAAGATGACGACAGGCTGGAGCAGATC  
 AGAAAGGATTACACCAGCGGAGCCATGCTCACCGGGAGCTCAAGAAGACGCTCATAGACGTCCTTCAGC  
 CCCTGATCGCAGAGCACCAGGCCGACGCAAGGCGGTCACTGAGGAGACCGTGAAGGAGTTCATGACGCC  
 CCGGCAGCTGTCTTCCACTTCCAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207621 representing BC046232  
 Red=Cloning site Green=Tags(s)

MADMPSGESCTSPLELFNSIATQGELVRSKAGNAPKDEIDSAVKMLLSLKMSYKAAMGEEYKAGCPPGN  
 PTAGRNCDSDATKASEDFVDPWARTSSAKGIDYDKLIVQFGSSKIDKELINRIERATGQRPHRFLRRGI  
 FFSHRDMNQILDAYENKPPFYLYTGRGPSSEAMHLGHLVPIFTKWLQDVFNVPLVIQMSDDEKYLWKDL  
 TLEQAYSYTVENAKDIIACGFDINKTFIFSDLEYMGQSPGFYRNVVKIQKHVTFNQVKGIFGFTDSDCIG  
 KISFPAVQAAPSFNSFPKIFRDRTDIQCLIPCAIDQDPYFRMTRDVAPRIGHPKPALLHSTFFPALQGA  
 QTKMSASDPNSSIFLTDATAKQIKSVNKHAFSGGRDVEEHRQFGNCEVDVSMYLTFFLEDDDRLEQI  
 RKDYTSGAMLTGELKKTLDVQLPLIAEHQARRKAVTEETVKEFMTPRQLSFHFQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** BC046232

**ORF Size:** 1425 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [BC046232](#), [AAH46232](#)

**RefSeq Size:** 2873 bp

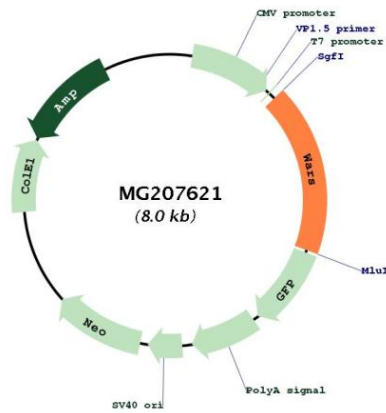
**RefSeq ORF:** 1427 bp

**Locus ID:** 22375

**Cytogenetics:** 12 F1

**Gene Summary:** T1-TrpRS has aminoacylation activity while T2-TrpRS lacks it. T1-TrpRS and T2-TrpRS possess angiostatic activity. T2-TrpRS inhibits fluid shear stress-activated responses of endothelial cells. Regulates ERK, Akt, and eNOS activation pathways that are associated with angiogenesis, cytoskeletal reorganization and shear stress-responsive gene expression (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG207621