

Product datasheet for **MG207719**

Wars (BC003450) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wars (BC003450) 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:

>MG207719 representing BC003450
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGACATGCCAGTGGCGAGTCTGCACCTCTCCACTGGAGCTGTTCAACAGCATAGCTACTCAAG
 GGGAGCTCGTGAGTCCCTCAAAGCTGGAAATGCACAAAAGATGAGATTGATTCTGCAGTAAAGATGTT
 GTTATCATTAAAAAGTGAGCTATAAGGCCCCATGGGGGAGGAGTACAAGGCTGGCTGCCCTCTGGGAAC
 CCAACAGCTGGGAGAAATTGTGACTCTGATGCCACAAAAGCCAGCGAGGATTTTGTGGATCCATGGACAG
 TGCGGACAAGCAGTGCAAAGGCATCGACTATGACAAGCTCATTGTTTCAAGTTTGGAAAGCAGCAAAATTGA
 CAAAGAGCTGATAAACCGAATAGAGCGAGCCACTGGCCAAAGACCCGACCGCTTCTCGCCGGGGCAGC
 TTCTTCTCCACCGAGATATGAATCAAATTCTGGATGCCTATGAAAATAAGAAGCCATTCTACCTGTACA
 CAGGCAGGGGCCCTCTCCGAAGCAATGCATCTGGGTATCTCGTCCCCTTTATTTTACAAAAGTGGCT
 ACAGGATGTGTTCAATGTGCCTTTGGTATCCAGATGTCTGATGACGAGAAGTACCTGTGGAAGGACTTG
 ACTCTGGAGCAGGCATATAGCTACACCGTAGAAAATGCAAAGGACATCATTGCCTGTGGCTTCGACATCA
 ACAAACCTTTTCTCTCTGATCTTGAGTATATGGGGCAGAGCCCGGGCTTCTACAGGAACGTGGTGAA
 GATTTCAGAAGCACGTACCTTCAACCAAGTGAAGGCATTTTCGGCTTTACGGACAGTACTGCATCGGG
 AAGATCAGTTTTCTGTGTCCAGGCCGCGCCATCGTTTACGAACTCTTTCCAAAGATCTTCCGAGACA
 GGACAGATATCCAGTGCCTATCCCGTGTGCCATTGACCAGGATCCGACTTCAGAATGACAAGGGACGT
 GGCCCCAGGATCGGCCATCCTAAACCTGCCCTGCTGACTCGACCTTCTCCCTGCCCTGCAGGGTGT
 CAGACCAAGATGAGTGCCAGTGACCCCACTCTCCATCTTCTCACTGACACGGCCAAGCAGATCAAGA
 GCAAGGTCAACAAGCATGCATTTTCTGGAGGAAGAGACACTGTGGAGGAGCACAGGCAATTTGGGGCAA
 CTGTGAAGTGGATGTATCCTTCATGTATCTGACCTTCTTCTTGAAGATGACGACAGGCTGGAGCAGATC
 AGAAAGGATTACACCAGCGGAGCCATGCTCACTGGGGAGCTCAAGAAGACGCTCATAGAGCTCCTTCAGC
 CCCTGATCGCAGAGCACCAGGCCGACGCAAGGCGGTACCGAGGAGACCGTGAAGGAGTTCATGACGCC
 CAGGCAGCTGTCTTCCACTTCCAGTGTCTGCTTTGACACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207719 representing BC003450
 Red=Cloning site Green=Tags(s)

MADMPGSECTSPLELFNSIATQGELVRSKAGNAPKDEIDSAVKMLLSLKVSYKAAMGEEYKAGCPPGN
 PTAGRNCDSATKASEDFVDPWTVRTSSAKGIDYDKLIVQFGSSKIDKELINRIERATGQRPHRFLRRGI
 FFSHRDMNQILDAYENKPPFYL YTRGSPSEAMHLGHLVPIFTKWLQDVFNVPLVIQMSDDEKYLWKDL
 TLEQAYSYTVENAKDIIACGFDINKTFIFSDLEYMGQSPGFYRNVVKIQKHVTFNQVKGIFGTFDSDCIG
 KISFPAVQAAPSFNSFPKIFRDRTDIQCLIPCAIDQDPYFRMTRDVAPRIGHPKALLHSTFFPALQGA
 QTKMSASDPNSSIFLTDATAKQIKSVNKHAFSGGRDVEEHRQFGNCEVDVSMYLTFFLEDDDRLEQI
 RKDYTSGAMLTGELKKTLDVLPQPLIAEHQARRKAVTEETVKEFMTPRQLSFHFQCFDFD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC003450

ORF Size: 1443 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: [BC003450](#), [AAH03450](#)

RefSeq Size: 1838 bp

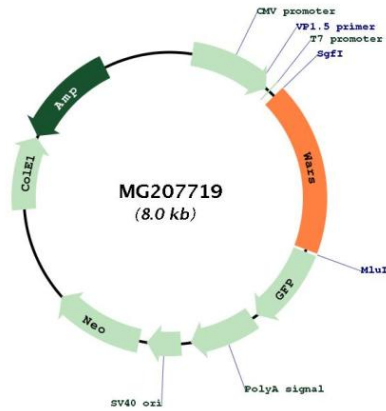
RefSeq ORF: 1445 bp

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 MG207719