

Product datasheet for **RN212141**

Wars (NM_001013170) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wars (NM_001013170) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Wars
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN212141 representing NM_001013170
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGACATGCCAGTGGCGAGTCTGCACCTCTCCACTGGAGCTCTTCAACAGCATAGCTGCTCAAG
 GGGAGCTCGTGAGGTCCCTCAAAGCTGGAAATGCACAAAAGATGAGATTGAGTCTGCAGTAAAGATGTT
 GTTGTCATTAAAAATGAACTATAAGACTGCCATGGGGGAGGAATACAAGGCTGGCTGCCCTCTGGGAAT
 TCAACAGCTGGGAGTAATGGTGACCCAGATGCCACAAAAGCCAGCGAGGATTTTGTGGATCCATGGACGG
 TGCGGACAAGCAGCGCAAAGGCATCGACTACGACAAACTCATTGTTTCAGTTTGGAAAGCAGCAAAATTGA
 CAAGGAGCTGATAAACCGAATCGAGCGAGCCACGGGCCAAAGGCCACCCGCTTCTCGCCGGGGCATC
 TTCTTCTCCACCAGATATGAATCAAATTCTGGATGCCTATGAAAATAAGAAGCCATTTTACCTGTACA
 CAGGCAGGGGCCCTCTCCGAAGCAATGCATCTGGGTATCTCGTCCCATTTATTTTACAAAAGTGGCT
 GCAGGATGTGTTTCGATGTGCCTCTGGTATCCAGATGTCTGATGATGAGAAGTACCTGTGGAAGGACTTG
 ACTCTGGAACAGGCATACAGCTACACCGTGGAAAATGCCAAGGACATCATTGCCTGTGGCTTTGAGTCA
 AAAAAACGTTTCATCTTCTGATCTTGAGTATATGGGGCAGAGCCAGGCTTCTACAAGAAGCTGGTGAA
 GATTTCAGAAGCATGTCACCTTCAACCAAGTGAAGGCATCTTTGGCTTCACTGACAGTACTGCATTGGG
 AAGATCAGTTTTCTGCTGTTTCAGGCTGCCCATCATTAGCAACTCTTTCCGAAGATCTTCCGAGACA
 GGACGGATATCCAGTGCCTCATCCCATGTGCCATTGACCAGGACCCGACTTCAGAATGACAAGGGATGT
 GGCCCCAGAATCGGCCATCCTAAGCCTGCCCTGCTGACTCGACCTTCTCCCTGCTTTGCAGGGTGT
 CAGACCAAGATGAGCGCCAGTGACCCAACTCCTCCATCTTCTCACCGACACGGCCAAGCAGATCAAGA
 GCAAGGTCAACAAGCATGCATTTTCTGGAGGAAGTGACACCGTGGAGGAACACAGGCAGTTTGGGGCAA
 CTGTGAAGTAGACGTGTCTTCATGTATCTGACCTTCTTCTTGAAGATGACGACAGTCTGGAGCAGATC
 AGAAAGGATTACACTAGCGGAGCCATGCTCACTGGGGAGCTCAAGAAGACGCTCATAGATGTCTTCAGC
 CCCTGATTGCAGAGCACCAGGCCGACGCAAGGCGGTACCGAGGAAACAGTGAAGGAGTTCATGGCACC
 CCGACAGCTGTCTTTCACCTCCAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001013170

Insert Size: 1428 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001013170.2](#), [NP_001013188.2](#)

RefSeq Size: 2874 bp

RefSeq ORF: 1428 bp

Locus ID: 314442

Cytogenetics: 6q32

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]