

Product datasheet for **RR209548**

Tst (NM_012808) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tst (NM_012808) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tst
Synonyms:	RHODAN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR209548 representing NM_012808 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTTCATCAGGTGCTCTATCGAGCGCTGGTCTCCACCAAGTGGCTGGCGGAATCCATTTCGGTCCGGCA
 AGGTGGGGCCAAGCCTTCGGGTGCTGGACGCGTCATGGTACTCACCAGGGACCCGCCAGGCACGCAAGA
 GTACCAGGAGCGACACGTGCCTGGCGCGTCTTCTTTGATATAGAGGAGTGCCGGGACACGACTTCGCCT
 TACGAGATGATGCTGCCAGTGAGGCCCACTTTGGGACTACGTGGCAACCTGGGCATAAGCAACGACA
 CACACGTCGTGGTATACGATGGAGACGACCTGGGCAGCTTCTATGCACCCAGAGTATGGTGGATGTTTCG
 TGTGTTTGGCCACCGCACAGTATCAGTGTCAATGGTGGTTTCCGGAACCTGGCTGAAGGAGGGCCACCCG
 GTGACATCTGAACCCTCGCGGCCAGAGCCAGCCGTTTTCAAAGCCACACTGAACCGCTCCCTGCTCAAGA
 CCTATGAGCAGGTCTGGAGAACCTCCAGTCTAAAAGGTTCCAGCTGGTGGATTCTCGGGCCCAGGGACG
 GTACCTGGGCACACAACCGGAGCCCGATGCAGTAGGACTGGACTCAGGCCACATCCGTGGCTCTGTCAAC
 GTGCCCTTCATGAACTTCCTGACAGAAGATGGCTTCGAGAAGAGCCCAGAGGAGCTGCGTGCCATATTCC
 AGGACAAGAAGGTGGACCTCTCCAGCCCTTATCGCCACATGCCGAAAGGGGTCACTGCTTGCCACAT
 TGCCCTGGCTGCCTACCTTTGTGGCAAGCCCGATGTGGCTGTTTACGATGGCTCCTGGTCAGAGTGGTTT
 CGCAGGGCCCCCGGAGACCCGTGTGTCCAGGGGAAGAGTGGGAAGGCC

AC**GGGCGCGC**TCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
 TTACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR209548 representing NM_012808
Red=Cloning site Green=Tags(s)

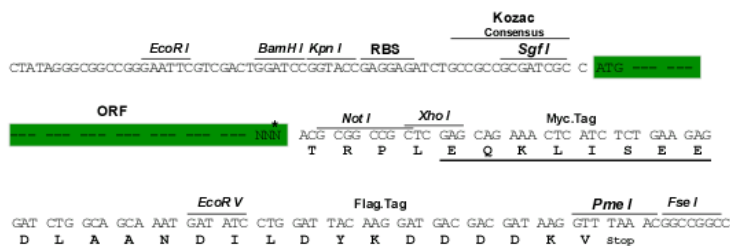
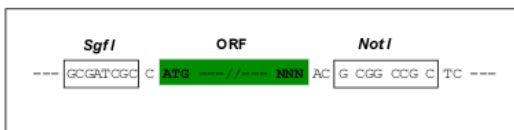
MVHQVLYRALVSTKWLAEsirSGKVGPSLRVLDASWYSPGTRQARKEYQERHVPgasFFDIEECrdTTSP
YEMMLPSEAHFGDYVGNLGISNDTHVVYVDGDDLGSFYAPRVWMMFRVFGHRTVSVLNGGFRNWLKEGHP
VTSEPSRPEPAVFKATLNPSRLKTYEQVLNLQSKRFQLVDSRAQGRYLGTPPEPDAVGLDSGHIRGSVN
VPFMNFLTDEGFKEESPEELRAIFQDKKVDLSQPLIATCRKGVTACHIALAYLCGKPDVAVYDGSWSEWF
RRAPPETRVSQKSGKA

TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-NotI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 012808

ORF Size: 891 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_012808.1](#), [NP_036940.1](#)

RefSeq Size: 1119 bp

RefSeq ORF: 894 bp

Locus ID: 25274

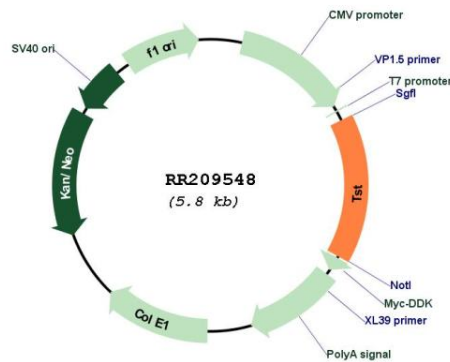
UniProt ID: [P24329](#)

Cytogenetics: 7q34

MW: 33.4 kDa

Gene Summary: mitochondrial matrix enzyme; may play a role in cyanide detoxification and the formation of iron-sulfur complexes [RGD, Feb 2006]

Product images:



Circular map for RR209548