

Product datasheet for **MG218731**

Tars2 (NM_001163619) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tars2 (NM_001163619) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tars2
Synonyms:	2610024N01Rik; AI429208; Tars1; thrRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218731 representing NM_001163619 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTCTCTGTCTGAGGTGGCGCCGGCTTGGGTTCCCACTCCCAGAGTTCGCCGCTGCGAGCTCCACA
CCGTGCGTGAGGCCTCTGCACCAACTCCTCCACATTGGTTGGCAGAACGATTTGGCCTTTTTGAGGAGCT
ATGGACCGCTCACGTGAAAAAGTTAGCAAGTATGACACAGAAGAAAGCCCGGGCTATTAAGATATCACTT
CCTGAAGGCCAGAAGGTAGATGCTGTTGCATGGAACACAACCCCTTACCAACTGGCCCATCAGATCAGTG
TAACACTGGCTGATACTGCAGTGGCTGCTGAAGTAAATGGAGAAGTTTACGATCTGGACCGACCCCTTGG
GACAGATTGTCACCTCAGATTTCTGACATTTGATTCGCCAGAGGGCAAAGCGGTGTTCTGGCACTCTAGT
GCCCATGTTCTGGGGGCTGCGGGTGAACAACAAGTGGGTGCTGTTCTCTGCCGAGGTCCAAGCACAGAAT
CGGGCTTTTACCATGACTTCTTCTGGGAAAAGAACGGACAGTCCGCAGCGCAGAGTTGCCCATTTTAGA
GCGGATTTGCCAGGAGCTCATAGCTGCTGCACAGCCTTCCGGAGGCTGGAGGCTTACGGGATCAGCTT
CGCCAGCTCTTCAAGGACAACCACTTTAAGCTTCATCTGATCGAGGAGAAAGTGACAGGCCAACGGCAA
CAGTGTATGGGTGTGGCATGTGAGTTGACCTGTGCCGAGGCCCATCTTCGGCACACTGGACAGATTGG
AGCACTGAAGCTGCTCACGAACCTCAGCCTTGTGGAGTCTTGGGAGCACCTGAGACTGCAGAGG
GTATCAGGAATTTCTTTCCCAAAGTAGAGTTACTGAGGAAGTGGGAAGCTCGAAGAGAAGCAGCAGAGT
TAAGAGACCACAGACGCATTGGGAAGGAACAGGAGCTTCTTCTTCCATGAAGTGAAGCCCTGGGAGCTG
TTTTTTCTTGCCACGAGGACAAGAGTCTATAATGCCCTGGTGGCTTTTCATCAGGCTGGAAGCAGAGATC
CAGGGCTGCCTTGATTTCTCCGGTGTGTTACTCGGTTCTTGGTTTTCTTCCACCTGGCTTTATCTA
CCCGGCCACCTGGTTTCTAGGGGAGCCTCGCCTATGGGACCAGGCTGAGCAGGTTCTACAGCAAGCCTT
GGAGAAGTTGGAGAACCTTGGGACCTCAACCCTGGAGATGGGGCTTTCTATGGGCTAAGGCAAGCTGG
AGCCACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218731 representing NM_001163619
 Red=Cloning site Green=Tags(s)

MGLCLRWRRLGFPLPEFRRCCELHTVREASAPTPPHWLAERFGLFEELWTAHVKKLASMTQKKARAIKISL
 PEGQKVDVAWNTTPYQLAHQISVTLADTAVAAEVNGLYDLDRPLETDCHLRFLTFDSPEGKAVFWHSS
 AHVLGAAAEQQLGAVLCRGPSTESGFYHDFFLGKERTVRSaelPILERICQELIAAAQPFRRLEASRDQL
 RQLFKDNHFKLHLIEEKVTGPTATVYGCMSVDLCRPHLRHTGQIGALKLLTNSSALWRLGAPETLQR
 VSGISFPKVELLRNWEARREAAELRDHRRIGKEQELFFHELSPGSCFFLPRGTRVYNALVAFIRLEAEI
 QGCLDFLRCVYSVLGFSFHLALSTRPPGFLGEPRLWDQAEQVLQQALEKFGEPWDLNPGDGAFYGPKASW
 SHT

TRTRPLE - GFP Tag - V

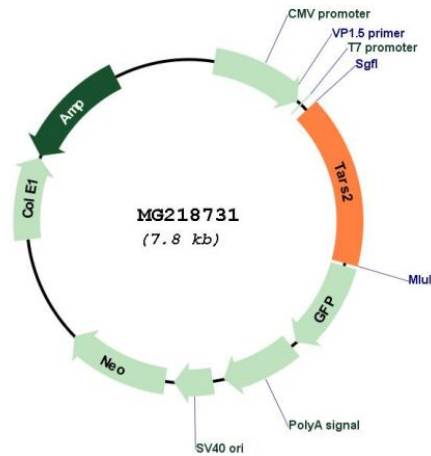
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001163619

ORF Size:	1269 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:	<ol style="list-style-type: none">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_001163619.1 , NP_001157091.1
RefSeq Size:	3322 bp
RefSeq ORF:	1272 bp
Locus ID:	71807
Cytogenetics:	3 F2.1
Gene Summary:	Catalyzes the attachment of threonine to tRNA(Thr) in a two-step reaction: threonine is first activated by ATP to form Thr-AMP and then transferred to the acceptor end of tRNA(Thr). Also edits incorrectly charged tRNA(Thr) via its editing domain.[UniProtKB/Swiss-Prot Function]