

Product datasheet for **MR218731**

Tars2 (NM_001163619) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tars2 (NM_001163619) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tars2
Synonyms:	2610024N01Rik; AI429208; Tarsl1; thrRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR218731 representing NM_001163619
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTCTCTGTCTGAGGTGGCGCCGGCTTGGGTTCCCACTCCCAGAGTTCGCCCGCTGCGAGCTCCACA
 CCGTGCGTGAGGCCTCTGCACCAACTCCTCCACATTGGTTGGCAGAACGATTTGGCCTTTTTGAGGAGCT
 ATGGACCGCTCACGTGAAAAAGTTAGCAAGTATGACACAGAAGAAAGCCCGGGCTATTAAGATATCACTT
 CCTGAAGGCCAGAAGGTAGATGCTGTTGCATGGAACACAACCCCTTACCAACTGGCCATCAGATCAGTG
 TAACACTGGTGATACTGCAGTGGCTGCTGAAGTAAATGGAGAAGTTTACGATCTGGACCGACCTTGGG
 GACAGATTGTACCTCAGATTTCTGACATTTGATTCCCCAGAGGGCAAAGCGGTGTTCTGGCACTTAGT
 GCCCATGTTCTGGGGCTGCGGCTGAGCAACAAGTGGTGTCTCTGCGGAGGTCCAAGCACAGAAT
 CGGGCTTTTACCATGACTTCTTCTGGGAAAAGAACGGACAGTCCGCAGCGCAGAGTTGCCATTTTAGA
 GCGGATTTGCCAGGAGCTCATAGCTGCTGCACAGCCTTTCCGGAGGCTGGAGGCTTACGGGATCAGCTT
 CGCCAGCTCTTCAAGACAACCACTTTAAGCTTCACTGATCGAGGAGAAAGTGACAGGCCCAACGGCAA
 CAGTGTATGGGTGTGGCATGTACAGTTGACCTGTGCCGAGGCCCCATCTTCGGCACACTGGACAGATTGG
 AGCACTGAAGCTGCTCACGAACCTCTCAGCCTTGTGGAGGTCCTTGGGAGCACCTGAGACACTGCAGAGG
 GTATCAGGAATTTCTTTCCCAAGTAGAGTACTGAGGAACTGGGAAGCTCGAAGAGAAGCAGCAGAGT
 TAAGAGACCACAGACGATTGGGAAGGAACAGGAGCTCTTCTTCCATGAAGTGAAGCCCTGGGAGCTG
 TTTTTTCTTGGCACGAGGGACAAGATCTATAATGCCCTGGTGGCTTTCATCAGGCTGGAAGCAGAGATC
 CAGGGCTGCCTTGATTTCTCCGGTGTGTTACTCGGTTCTTGGTTTTCTTCCACCTGGCTTTATCTA
 CCCGGCCACCTGGTTTTCTAGGGGAGCCTCGCCTATGGGACCAGGCTGAGCAGTTCTACAGCAAGCCTT
 GGAGAAGTTGGAGAACCCTGGACCTCAACCTGGAGATGGGGCTTTCTATGGGCTAAGGCAAGCTGG
 AGCCCACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218731 representing NM_001163619
 Red=Cloning site Green=Tags(s)

MGLCLRWRRLGFPLPEFRRCCELHTVREASAPTPPHWLAERFGLFEELWTAHVKKLASMTQKKARAIKISL
 PEGQKVDAAVWNTTPYQLAHQISVTLADTAVAAEVNDEL YDLDRPLETDCHLRFLTFDSPEGKAVFWHSS
 AHVLGAAAEQQLGAVLCRGPSTESGFYHDFFLGKERTVRSALPILERICQELIAAAQPFRRLEASRDQL
 RQLFKDNHFKLHLIEEKVTGPTATVYGGMSVDLCRPHLRHTGQIGALKLLTNSALWRSLGAPETLQR
 VSGISFPKVELLRNWEARREAAELRDHRRIGKEQELFFHELSPGSCFFLPRGTRVYNAL VAFIRLEAEI
 QGCLDFLRCVYSVLGFSFHLALSTRPPGFLGEPRLWDQAEQVLQQALEKFGEPWDLNPGDGAIFYGPKASW
 SHT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


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:

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

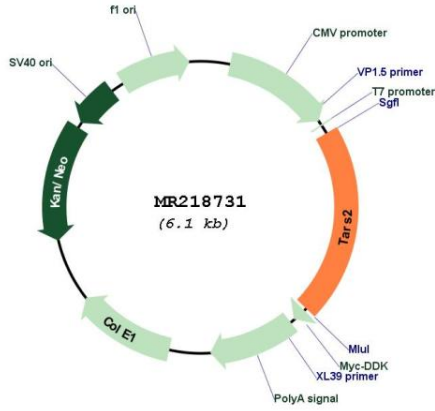
Cytogenetics: 3 F2.1

MW: 48.3 kDa

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]

Product images:



Circular map for MR218731