

Product datasheet for **MR210282**

Tars (NM_033074) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tars (NM_033074) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tars
Synonyms:	D15Wsu59e; ThrRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR210282 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGCAGGAGAAGGCTAGCAGCCCTTCGGGGAAGATGGACGGCGAGAAGCCGGTGGATGCCAGCGAGG
AGAAGCGGAAAGAAGGAGGCAAGAAGAAGAGCAAAGATGGAGGTGGAGATGGAGGTCGAGCAGAGTTGAA
TCCTGGCCTGAATACATTAACACACGCCTTGATATGTACAACAACTCAAAGCAGAACACGATTCTATC
CTGGCCGAAAAGGCAGCAAAAGATAGCAAGCCGATTAAGTCACCCTGCCTGACGGCAAGCAGGTGGATG
CGGAGTCTGGAAAACCACGCCGTATCAGATTGCTTGTGGAATTAGTCAGGGCCTGGCTGACAACCCGT
TGTTGCTAAGGTGAACAAAGTCGTTTGGGACCTGGACCGCCGCTGGAGACAGATTGCACGTTGGAGCTG
CTCAAGTTTGAGGACGAGGAAGCGCAGGCCGTACTGGCACTCCAGTCCCACATAATGGGCGAGGCCA
TGGAGAGAGTCTATGGCGGATGTCTATGTTACGGCCCAATAGAAAACGGCTTCTATTATGATATGTA
CCTTGAAGAAGGGGCGTGTCCAGCAATGACTTCTTCCCTGGAACTTTGTGCAAGAAAATCATTAAA
GAGAAAACAACTTTCGAAAGATTGGAAGTTAAAAGGAAACATTACTAGAAATGTTTAAAGTACAACAAGT
TCAAGTGCCGGATATTGAATGAGAAAGTGAATACTCCGACCACGACTGTCTACAGATGTGCCCTCTGAT
AGATCTCTGCCGGGTCCTCATGTCCGACACACCGGCAAGATTAAGACTTTGAAGATACACAAGAATTCT
TCCACGTACTGGGAAGGCAAAGCAGACATGGAGACGCTCCAGCGGATCTATGGCATTTCATTCCCTGACC
CCAAGCTACTGAAAGAGTGGGAGAAGTTCCAAGAGGAAGCAAAAACCGAGACTACAGGAAAACCGGGAG
GGACCAAGAACTATTTCTTCCATGAAGTTAGCCCTGGAAGTTGCTTTTTCTGCCAAAGGAGCCTAC
ATTTATAATACTAATGAATTTATCAGGAGTGAATATAGGAAAAGAGGGTTCAGGAGGTGCTCACTC
CCAACATCTTCAATAGCCGGCTCTGGATGACCTTGCCACTGGCAGCACTACAGCGAGAACATGTTCTC
CTTTGAGGTGGAGAAGGAGCAGTTTGCACCTTAAGCCCATGAACTGCCCGGACACTGCCTGATGTTGAT
CACCGGCCACGGTCTGCGGAGAGCTGCCCTGCGGCTAGCTGACTTTGGTGTGCTGCATAGGAATGAGC
TCTCGGGGCTCTCACCAGGCTCACACGGTCCGAAGATTCAGCAGGATGACGCACACATCTTCTGTGC
CATGGAGCAGATTGAAGATGAAATCAAAGGTTGTTTGGATTTTCTTCGCACAGTATATAGTGTCTTGG
TTTTCATTTAAATTGAATCTTCTACTCGCCAGAAAATTCCTTGAGATATTGAAATATGGAACCAAG
CTGAGAAACAACCTGAAAACAGTTTGAATGAGTTCGGTGAGAAGTGGAACTAAATCCTGGAGATGGAGC
CTTCTATGGCCAAAGATTGACATACAGATAAAAGATGCCATCGGTGCGTACCACCAGTGTGCAACCATC
CAGCTGGACTTTCAGTTGCCATCAGGTTAACCTTACTTACGTCAGCCACGATGGCGATGATAAGAAA
GGCCAGTGATTGTTACAGAGCCATCCTGGGGTGGTGGAAAGAATGATTGCCATCCTCACAGAAAATA
TGGGGGCAAAATGGCCTTCTGGCTCTCTCCTCGCCAGGTGATGGTGGTCCCAGTGGGACCGACATGTGAT
GAATATGCCAAAAGGTACGGCAACAATTCATGATGCTAAATTCATGGCGGACACTGACCTGGATCCAG
GCTGTACCTTGAATAAGAAGATCAGAAACGCACAGTTAGCACAGTATAAATTCATCCTTGTGTTGGTGA
AAAAGAGAAAGCCAGTGGCAGGTTGAACATCCGCACGAGAGACAATAAGGTCCACGGAGAGCGGACAGTG
GAGGAGACGGTGGCGGCTGCAGCAGCTCAAGCAGACGCGCAGCAAGCAGGCAGAGGAGGATTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210282 protein sequence
 Red=Cloning site Green=Tags(s)

```
MSQEKASSPSGKMDGEKPVDASEEKKEGGKKSKDGGGDGGRAELNPWPEYINTRLDMYNKLKAEHDSI
LAEKAAKDSKPIKVTLPDGKQVDAESWKTTPYQIACGISQGLADNTVAVKVNKVWDLDRPLETDCLEL
LKFEDEEAQAVYWHSSAHIMGEAMERVYGGCLCYGPIIENGFYDMYLEEGVSSNDFSSLETLCCKIIK
EKQTFERLEVKKETLLEMFKYKFKCRILNEKVNTPTTTVYRCGPLIDLCRGPHVRHTGKIKTLKIHKNS
STYWEGKADMETLQRIYGISFPDPKLLKEWEKFQEEAKNRDVRKTGRDQELYFFHELSPGSCFFLPKGAY
IYNTLMEFIRSEYRKRGFQEVVTPNIFNSRLWMTSGHWQHYSENMFSFEVEKEQFALKPMNCPGHCLMFD
HRPRSWRELPLRLADFGVLHRELNSGAL TGLTRVRRFQQDDAHIFCAMEQIEDEIKGCLDFLRTVYSVFG
FSFKLNLSTRPEKFLGDIEIWNQAEKQLENSLNEFGEKWE LNPGDGAFYGPKIDIQKDAIGRYHQCATI
QLDFQLPIRFNL TYVSHDGGDKRPVIVHRAILGSVERMIAIL TENYGGKWPFWLSPRQVMVVPVGP TCD
EYAQKVRQQFHDAKFMADTDLDPGCTLNKKIRNAQLAQYNFIL VVGEKEKASGTVNIRTRDNKVHGERTV
EETVRRLLQQLKQTRSKQAE EEF
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_033074

ORF Size: 2169 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_033074.1](#), [NM_033074.2](#), [NM_033074.3](#), [NP_149065.2](#)

RefSeq Size: 2636 bp

RefSeq ORF: 2169 bp

Locus ID: 110960

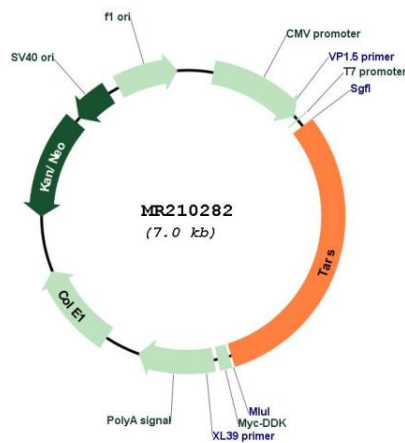
UniProt ID: [Q9D0R2](#)

Cytogenetics: 15 5.6 cM

MW: 83.4 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, at the post-transfer stage. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210282