

Product datasheet for **MR210670**

Tarsl2 (NM_172310) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tarsl2 (NM_172310) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tarsl2
Synonyms:	A530046H20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR210670 representing NM_172310
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCCAGGCCCTGGCGGCTCAGGCGGTGGCTCGCGCCTGCACGGCAGGAGGAGACATCCGCT
 GGCTGTGCGCGGAGGTGCAGCGCCTGAGGGACGAGCAGCTGCGCGGGCCGAGCGGGGCCAAGCCGAGGG
 CCCGCGCCTGACACGCGAGGTGGCACAGCTCCAGGCGGAGAACC GCGACCTGCACCAGCGCCTGTGTGGC
 CTGCGGCTGCGCCTGGCGGAGCAGCGCCGACCCAGGCGGGGCGAGCGCGGCGCACGAGCCTCCTACCC
 AAAACCAAGAGAAGGACACAAAGAAGAAGAGGCTGAAGCAGAGTGAGCCTGGCCGGGAGGTGAAGCAACC
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 TTTACTATGGAGGCCACCTGTGTATGGCCACCCATTGAAAATGGGTTTTATTATGATATGTTATTGA
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 AATGCGCTTATGGATTTACATACGAGAGGAATATCACAGCGTAACCTCACAGAAGTGCTCTCTCCAACA
 TGTACAACAGTAACTCTGGAAACATCAGGCCACTGGCAGCATTACAGTAACAACATGTTACACCTTTGA
 CGTCGAGAAGGACACTTTCGCCCTCAAACCCATGAACTGTCCAGGGCACTGTTAATGTTTCGCACATCGC
 CCGCGATCCTGGAGGAAATGCCTGTTAGATTTGCTGATTTTGGAGTTCTTACAGAAATGAGCTGTCAG
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 TTTCAATTAACCTGTCCACAAGCCTGAGCACTTCTAGGAGAGATTGAGATATGGGATGAAGCTGAAA
 GGCAACTGCAGAACAGCTTGGTGGAAATTTGGAAAACCATGGAAAATAAACCCAGGAGATGGAGCATTCTA
 TGGCCCTAAAATCGATATAAAAAATTAAGATGCTATTGGCAGATACCATCAGTGTGCTACAATTCAGCTG
 GACTTCCAACCTGCCTATCAGGTTAACCTCACATATGTGAGTAAGGATGGGGATGACAAGAACAGGCCTG
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 GCACTACAGGTGTCCAAGGAATGCTTCGAAGAAGGCTTCATGGCCGATGTGGACTTAGATGACAGTTGTA
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 GTCATTGAAAAATTAAGAACCTCAAAAAATCACGTACGCTAAATGCCGAGGAAGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210670 representing NM_172310
Red=Cloning site Green=Tags(s)

MAAQALAAQAVASRLQRQEEDIRWLCAEVQRLRDEQLRGPERRQAEGPRLTREVAQLQAENRDLHQRLCG
LRLRLAEQRRTEAGRAAAHEPPTQNQEKDTKKKRLKQSEPGREVKQPNFIKERLQLFETLKDHLQLLPAT
QEKKNNTNNVISVRVAGGKTVQGERWKTTPYQVAAGISKELAEHTVIAKVNGVLWDLDRPLEGDSTVELLM
FDNEEAQAVYWHSSAHILGEAMELYYGGHLCYGPPIENGFYYDMFIEDRVVSSTELSALENICKTIIKEK
QPFERLEVSKDTLLEMFYKFKCRILKEKVDTPTTTTVYRCGPLIDLCKGPHVRHTGKIKAIKIFKNSST
YWEGNPEMETLQRIYGISFPDSKMMKDWEKQEEAKSRDHRKIGKEQELFFFHDLSPGSCFFLPRGAFIY
NALMDFIREEYHKRNFTVLSNMYNSKLWETSGHWQHYSNNMFTFDVEKDTFALKPMNCPGHCLMFAHR
PRSWREMPVRFADFGVLHRNELSGTSLGTRVRRFQQDDAHIFCMVEQIEEEIKGCLHFLQSVYSTFGFS
FQLNLSTRPEHFLGEIEIWDEAERQLQNSLVEFGKPKINPGDGAFYGPKEIDIKIKDAIGRYHQCATIQL
DFQLPIRFNLTYVSKDGDKNRPVIIHRAILGSVERMIAILSENYGGKWPLWLSRQVMVIPVGPACENY
ALQVSKECFEEGFMAVDLDDSCTLNKKIRNAQLAQYNFILVVGEEKEKINNAVNVRTDNKIHGEISIAS
VIEKLNKLSRSLNAEEDF

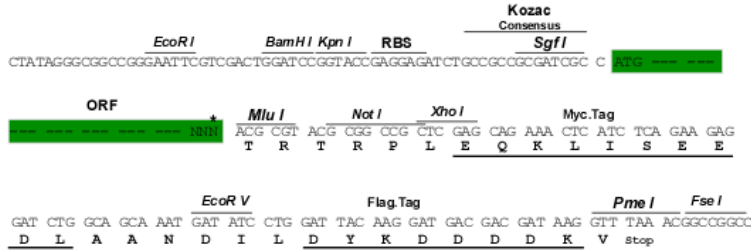
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9104_e06.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_172310

ORF Size: 2370 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_172310.2](#), [NP_758514.2](#)

RefSeq Size: 3194 bp

RefSeq ORF: 2373 bp

Locus ID: 272396

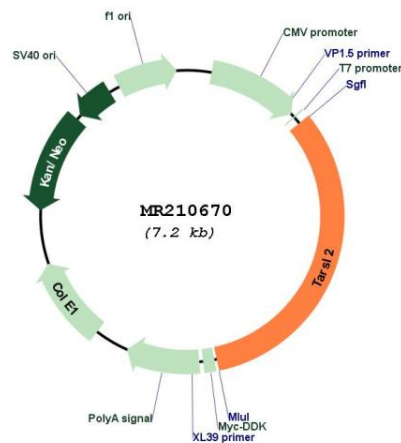
UniProt ID: [Q8BLY2](#)

Cytogenetics: 7 C

MW: 91.3 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, at the post-transfer stage. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210670