

Product datasheet for **MC221668**

Tarsl2 (NM_172310) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF:

>MC221668 representing NM_172310
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCCAGGCCCTGGCGGCTCAGGCGGTGGCCTCGCGCCTGCAGCGGCAGGAGGAGACATCCGCT
 GGCTGTGCGCGGAGGTGCAGCGCCTGAGGGACGAGCAGCTGCGCGGGCCGAGCGGGGCCAAGCCGAGGG
 CCCGCGCCTGACACGCGAGGTGGCACAGCTCCAGGCGGAGAACC GCGACCTGCACCAGCGCCTGTGTGGC
 CTGCGGCTGCGCCTGGCGGAGCAGCGCCGACCGAGGCCGGGCGAGCGCGGCGCACGAGCCTCCTACCC
 AAAACCAAGAGAAGGACACAAAGAAGAAGAGGCTGAAGCAGAGTGAGCCTGGCCGGGAGGTGAAGCAACC
 GAATTTTATAAAAGAGAGATTGCAGCTTTTGAACATTGAAGACAGATCATCACTGTTACCTGCTACT
 CAGGAAAAGAAGAACACAAACACGTGATTTCAAGTGGCGCTGGAATTAGTAAGGAATTGGCTGAACATACAGTGATTGC
 GGTGGAACCAACACCTTATCAAGTGGCGCTGGAATTAGTAAGGAATTGGCTGAACATACAGTGATTGC
 CAAAGTGAACGGTGTATTGTGGGATCTGGACCGCCGTTGGAAGGGGACTCCACTGTGGAGCTGCTGATG
 TTTGACAACGAGGAAGCCAGGCTGTGTACTGGCATTCCAGCGCTCACATCCTGGGGGAGGCCATGGAAC
 TTTACTATGGAGGCCACCTGTGTATGGCCACCCATTGAAAATGGGTTTTATTATGATATGTTATTGA
 AGACAGAGTGGTGTCCAGCACTGAGTTGTCTGCCTGGAGAACATATGTAAGTACAATAAATTTAAGT
 CAACCGTTTGAAGAGTGAAGTCAAGGACACTCTCCTGGAAATGTTAAGTACAATAAATTTAAGT
 GCCGGATTCTGAAGGAGAAAGTGGACACTCCGACGACCACTGTTTACAGGTGTGGTCCATTGATTGACCT
 TTGTAAGGCCCCCATGTAAGACACACTGGAAAAATTAAGCCATAAAAAATTTCAAGAACTCCTCAACA
 TATTGGGAAGGCAACCTGAGATGGAACTTTGCAGCGGATCTATGGGATATCCTTCTGACAGCAAAA
 TGATGAAAGACTGGGAAAAATCCAAGAGGAAGCAAGAGCCGGGACCACAGGAAAAATCGGAAGGAACA
 AGAACTTTTCTTCTCCATGATCTGAGCCCTGGAAGCTGTTTTTCTCCCGAGAGGAGCGTTTCATTAC
 AATGCGCTTATGGATTTACATACGAGAGGAATATCACAAGCGTAACCTCACAGAAGTGCTCTCTCCCAACA
 TGTACAACAGTAACTCTGGAAACATCAGGCCACTGGCAGCATTACAGTAACAACATGTTACCTTTGA
 CGTCGAGAAGGACACTTTCGCCCTCAAACCCATGAACTGTCCAGGGCACTGTTAATGTTGCGACATCGC
 CCGCGATCCTGGAGGGAATGCCTGTAGATTGTGCTGATTTGGAGTTCTTACAGAAATGAGCTGTCAG
 GCACTTTAAGCGGCTTAACCCGAGTGAGGCGCTTCCAGCAAGATGATGCGCACATCTTCTGCATGGTGGA
 GCAGATCGAAGAAGAAATAAAGGGGTGCTTGCACTTTTACAGTCCGTTTACTCGACGTTTGGCTTCTCC
 TTTCAATTAACCTGTCCACAAGGCCTGAGCACTTCTAGGAGAGATTGAGATATGGGATGAAGCTGAAA
 GGCAACTCGAGAACAGCTTGGTGAATTTGGAAAACCATGGAAAATAAACCCAGGAGATGGAGCATTCTA
 TGGCCCTAAAATCGATATAAAAATTAAGATGCTATTGGCAGATACCATCAGTGTGCTACAATTCAGCTG
 GACTTCCAACCTGCCTATCAGGTTTAACCTCACATATGTGAGTAAGGATGGGGATGACAAGAACAGGCCTG
 TGATCATTCACCGCGCCATCCTGGGGTCTGTGGAAAGGATGATAGCCATCCTCTCAGAGAACTACGGGGG
 GAAATGGCCTCTCTGGCTGTCCCTCGCCAGGTAATGGTCATCCAGTAGGCCAGCTTGTGAAAATTAT
 GCACTACAGGTGTCCAAGGAATGCTTGAAGAAGGCTTCATGGCCGATGTGGACTTAGATGACAGTTGTA
 CACTAAATAAGAAAATACGGAATGCACAGCTGGCTCAGTATAATTTCAATTTGGTGGTTGGCGAAAAGGA
 AAAGATCAACAATGCAGTAAATGTTGAACAAGAGACAACAAAATTCATGGAGAAATATCAATAGCTTCC
 GTCATTGAAAAATTGAAGAACCTCAAAAATCACGTACGCTAAATGCCGAGGAAGACTT**CTGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_172310

Insert Size:

2373 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_172310.2</u> , <u>NP_758514.2</u>
RefSeq Size:	3194 bp
RefSeq ORF:	2373 bp
Locus ID:	272396
UniProt ID:	<u>Q8BLY2</u>
Cytogenetics:	7 C
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]