

Product datasheet for **MR207535**

Yars2 (NM_198246) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Yars2 (NM_198246) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Yars2
Synonyms:	2210023C10Rik; tyrRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR207535 representing NM_198246
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGCGCCCATGCTGAGGCGCTGTGCCGCTTCCGAGTCCCTGGTCTGGCTACGAGGGTCGCGTG
 CGGTGCGCCCGGGCGCGGGGAATGCTGGTGGCACCGAGGGCCCGCGGCTTGTTC AAGGAGTCTTCCC
 CGAGAGCGGCACGAAGACAGAGCTCCCCGAACCTTTGACCGCCGAGGGCGGGCTCGTCCCCCAGACG
 GTGTA CTGCGGCTTCGACCCACGGGCGACTCGCTCCACGTGGGGCACCTGCTAACTCTGTTGGGCTCT
 TCCACTTCCAGCGAGCCGCCACAACGTGATCGCGCTCGTGGGAGGCTCCACGGCCCTCTGGGGGACCC
 CAGCGGCCGACCAAGGGGCGGAGGCGCTGAGCGCCGAGTGCCTGCGGGCCAACGCGCACGCCCTGCGG
 CGAGGGCTCGAGGCCCTGGCGGCAACCACGCGCCCTTTCGCGGACGGCCGCCCTGGGGCTCTTTCA
 CGGTGCTGGACAACGCGCCTGGTTCAGGAGCAGCACCTGGTGGATTTCTGGCCACGGTGGGCGGCCA
 CTTCCGCATGGGCACTCTGCTGAGCCGGCTGAGCGTGCAGTCCGCTCTCAAGAGCCCGAGGGCATGAGC
 TTGGCGGAGTTCTTTTACCAGGTGCTCCAGGCCTATGACTTCTACTACCTTTTCCAGCACTATGGATGCC
 GGGTCCAACTGGGCGGATCAGATCAGTTGGCAACATCATGTCTGGCTACGAGTTCATCCACAAGTTGAC
 TGGAGAGGATGTGTTTGGAACTACTGTACTCTAATTACAAGTACAACCTGGAGCAAAGCTGGGAAAGTCT
 GCTGGCAATGCGGTTTGGCTAACAGAGAGAAAACATCACCGTTTGAACCTTATCAGTCTTTGTGACAG
 AGCAAGATGATTCGTAAGAAAGTACCTGAAGCTTTTCACTTTCCCTCCCAGAGATCGATCACAT
 CATGCAGCTACATGTCAAAGAACCAGAAAAGCGAGTTGCTCAGAAACGACTTGTGCAGAAGTAAACAAG
 CTTGTTACGGACAAGAAGTCTGGACTCTGCTAAAAGGTGTACACAAGCCCTTACCATAGCAGCATAG
 AGGCACCTGGAGGTCATGTCTGACCAAGAGTTAAAAGAATTGTTTAAAGAAGCTTCATTTTCTGAATTAGT
 TCTTGATCCTGGAACGAGTGTATAGACACATGCCGTAAGCAAATGCCATTCCTGATGGCCCTCGAGGG
 TATCGGATGATAACAGAAGGTGGAGTCAGTATAAATCACAGACAGGTAACAAATCCTGAAAGTGTCTAG
 TAATTGGACAACATATTCTCAAGAATGGACTTTCTTACTTAAAAAGGAAAAGGAATTTCTACATTAT
 AAAATGGCTTCAGTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207535 representing NM_198246
 Red=Cloning site Green=Tags(s)

MAAPMLRRLCRVPQSLVWL RGSRAVRPGARGMLVAPRARGLFKEFFPESGKTELPELFDRRRAGSSPQT
 VYCGFDPTGDSLHVGHLLTLLGLFHFQRAGHNVIALLVGGSTALLGDPSGRTKGREALSAECVRANAHALR
 RGLEALANHARL FADGRPWGSFTVLDNAAWFQEQLVDFLATVGGHFRMGTL LSR LSVQSRLKSPEGMS
 LAEFFYQVLQAYDFYLFQHYGCRVQLGGSDQLGNIMSGYEF IHKLTGEDVFGITVPLITSTTGAKLGKS
 AGNAVWLNREKTS PFEL YQFFVRQQDSSVERYLKLFTFLPLPEIDHIMQLHVKEPEKRV AQKRLAAEVTK
 LVHGQEGLD SAKRCTQALYHSSIEALEVMSDQELKELFKEASFSELVLDPGTSVIDTCR KANAIPDGPRG
 YRMITEGGV SINHRQVTNPESVLVIGQHILKNGLSLLKIGKRNFYI IKWLQL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9090_d02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_198246

ORF Size: 1416 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_198246.2](#), [NP_937889.1](#)

RefSeq Size: 1587 bp

RefSeq ORF: 1419 bp

Locus ID: 70120

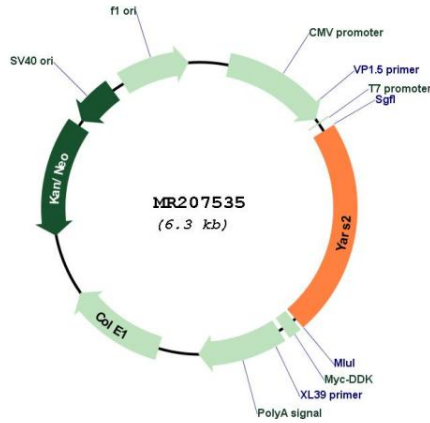
UniProt ID: [Q8BYL4](#)

Cytogenetics: 16 A2

MW: 52.6 kDa

Gene Summary: Catalyzes the attachment of tyrosine to tRNA(Tyr) in a two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP and then transferred to the acceptor end of tRNA(Tyr). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207535