

## Product datasheet for **MR208462**

### **Yars (NM\_134151) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Yars (NM_134151) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Yars
Synonyms:	AL024047; AU018965
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208462 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGTGATGCTCCAAGCCCTGAGGAGAAGCTGCATCTTATCACCCGGAACCTGCAGGAGTTCTGGGGG  
 AAGAGAAGCTGAAGGAGATCCTGAAGGAGCGGGAACCTAAAGTTTACTGGGGCACGGCCACCACGGGCAA  
 GCCACACGTGGCTTACTTTGTACCCATGTCCAAGATCGCTGACTTCTGAAGGCAGGGTGTGAGGTAACC  
 ATCCTGTTTGGGACCTCCATGCATACCTGGACAACATGAAAGCCCCCTGGGAGCTTCTAGAACTTCGAA  
 CCAGTTACTATGAGAATGTGATCAAGGCCATGCTGGAGAGTATTGGCGTGCCTTGGAGAAGCTCAAGTT  
 TATCAAAGGCACCGACTACCAGCTCAGCAAAGAGTACACACTGGATGTGTACCGACTGTCCTCTGTGGTC  
 ACACAACATGACCCAAGAAAGCGGGGGCTGAGGTTGTGAAGCAGGTGGAACACCCTTTGCTGAGTGGTC  
 TGCTGTACCCCGGTCTGCAGGCTTTGGATGAAGAGTACTTAAAGTAGACGCCAGTTCCGGCGGTGTTGA  
 TCAGAGGAAGATTTTTACCTTTGCAGAGAAGTATCTTCTGCACTGGCTACTCAAACGGGTCCACCTG  
 ATGAATCCCATGTTCCCTGGGTTAACTGGGAGCAAATGAGCTCGTCAGAAGAGGAGTCCAAAATCGACC  
 TCCTTGATCGGAAGGAGGACGTGAAGAAAAAGCTGAAGAAGGCCTTCTGTGAGCCCGCAATGTGGAGAA  
 CAACGGGGTCTGTCTTCATCAAGCATGTCCTCTTCCCTCAAGTCTGAGTTTGTGATCCTGAGAGAT  
 GAGAAGTGGGGTGAACAAGACCTACACCGTTTACCTAGAGCTGGAGAAGGACTTCGCTGCTGAGGTGC  
 TACACCTGGAGACCTAAGAATTCTGTTGAAGTCGCCCTGAACAAGTTGCTGGACCCATTAGAGAGAA  
 GTTTAATACTCCAGCCCTGAAGAAGCTGGCCAGTGTGCCTACCCAGATCCTTCAAAGCAGAAGCCTCCT  
 GCCAAAGGCCCTGCCAAGAACTCAGAACCAGAGGAAGTATCCCATCCCGGCTGGATATCCGTGTGGGCA  
 AAATCCTCAGCGTGGAGAAGCACCCAGATGCAGATAGCCTTTATGTGGAGAAGATTGATGTGGGGGAGC  
 TGAACCCAGGACTGTGGTGAGCGGCTCGTACAGTTTGTGCCAAAGAAGAACTGCAGGACAGGCTGGTG  
 GTGGTGTGTGCAATCTGAAACCCAGAAGATGAGAGGCGTGGACTCGCAGGGCATGCTACTGTGTGCTT  
 CTGTAGAAGGGGTGAGCCGCCAGGTTGAACCTCTGGACCTCCTGCTGGCTCTGCTCCTGGTGAACGAGT  
 GTTCGTACAGGGCTATGAGAAGGGCCAGCCAGATGAGGAGCTCAAGCCCAAGAAGAAAGTCTTTGAGAAG  
 CTGCAGGCCGACTTTAAATTTCTGAGGAGTGCATCGCACAGTGAAGCAAACTTTCATGACCAAGC  
 TGGGATTCGTCCTGTAATCACTAAAAGGGGTAACATCAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208462 protein sequence  
 Red=Cloning site Green=Tags(s)

MGDAPSPEEKHLHLITRNLQEVLGEEKLKEILKERELKVYWGATTTGKPHVAYFVPMSKIADFLKAGCEVT  
 ILFADLHAYLDNMKAPWELLELRYSYENVIKAMLESIGVPLEKLFKIKGTDYQLSKEYTLDVYRLSSV  
 TQHDAKKAGAEVVKQVEHPLL SGLLYPGLQALDEEYLKVDAQFGGVDQRKIFTF AEKYL PALGYSKRVHL  
 MNPMVPLTGSKMSSSEESKIDLLDRKEDVKKLKKAFCEPKNVENNGVLSFIKHVLFPLKSEFVILRD  
 EKWGGNKTYTVYLELEKDFAAEVVHPGDLKNSVEVALNKLLDPIREKFNTPALKKLASAAYPDPKQKPP  
 AKGPAKNSEPEEIVPSRLDIRVGKILSVEKHPDADSLYVEKIDVGEAEPRTVVSGLVQFVPKEELQDRLV  
 VVLCNLKPQKMRGVDSQGMLLCASVEGVSQVEPLDPPAGSAPGERVFVQGYEKQPDEELPKKKKVF EK  
 LQADFKI SEECIAQWKQTNFMTKLG FVSCKSLKGGNIS

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_134151

ORF Size: 1587 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\\_134151.1](#)

RefSeq Size: 2874 bp

RefSeq ORF: 1695 bp

Locus ID: 107271

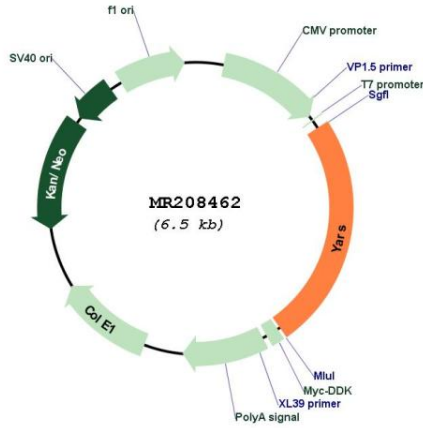
UniProt ID: [Q91WQ3](#)

**Cytogenetics:** 4 D2.2

**MW:** 59.1 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 MR208462