

## Product datasheet for **MG208462**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Yars (NM_134151) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Yars
Synonyms:	AL024047; AU018965
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG208462 representing NM\_134151  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGTGATGCTCCAAGCCCTGAGGAGAAGCTGCATCTTATCACCCGGAACCTGCAGGAGTTCTGGGGG  
 AAGAGAAGCTGAAGGAGATCCTGAAGGAGCGGGAACCTAAAGTTTACTGGGGCACGGCCACCACGGGCAA  
 GCCACACGTGGCTTACTTTGTACCCATGTCCAAGATCGCTGACTTCTGAAGGCAGGGTGTGAGGTAACC  
 ATCCTGTTTGGGACCTCCATGCATACCTGGACAACATGAAAGCCCCCTGGGAGCTTCTAGAACTTCGAA  
 CCAGTTACTATGAGAATGTGATCAAGGCCATGCTGGAGAGTATTGGCGTGCCTTGGAGAAGCTCAAGTT  
 TATCAAAGGCACCGACTACCAGCTCAGCAAAGAGTACACACTGGATGTGTACCGACTGTCCTCTGTGGTC  
 ACACAACATGACCCAAGAAAGCGGGGGCTGAGGTTGTGAAGCAGGTGGAACACCCTTTGCTGAGTGGTC  
 TGCTGTACCCCGGTCTGCAGGCTTTGGATGAAGAGTACTAAAAGTAGACGCCAGTTCCGGCGGTGTTGA  
 TCAGAGGAAGATTTTTACCTTTGCAGAGAAGTATCTTCTGCACTGGCTACTCAAACGGGTCCACCTG  
 ATGAATCCCATGGTCCCTGGGTTAACTGGGAGCAAAATGAGCTCGTCAGAAGAGGAGTCCAAAATCGACC  
 TCCTTGATCGGAAGGAGGACGTGAAGAAAAAGCTGAAGAAGGCCTTCTGTGAGCCCGCAATGTGGAGAA  
 CAACGGGGTTCTGTCTTCAAGCATGTCCTTTCCCTCAAGTCTGAGTTTGTGATCCTGAGAGAT  
 GAGAAGTGGGGTGGAAACAAGACCTACACCGTTTACCTAGAGCTGGAGAAGGACTTCGCTGCTGAGGTCG  
 TACACCTGGAGACCTAAAGAATTCTGTTGAAGTCGCCCTGAACAAGTTGCTGGACCCATTAGAGAGAA  
 GTTTAACTCCAGCCCTGAAGAAGCTGGCCAGTGTGCCTACCCAGATCCTTCAAAGCAGAAGCCTCCT  
 GCCAAAGCCCTGCCAAGAAGCTCAGAACCAGAGGAAGTATCCCATCCCGGCTGGATATCCGTGGGGCA  
 AAATCCTCAGCGTGGAGAAGCACCCAGATGCAGATAGCCTTTATGTGGAGAAGATTGATGGGGGGAAGC  
 TGAACCCAGGACTGTGGTGAAGCGCCCTCGTACAGTTTGTGCCAAAGAAGAACTGCAGGACAGGCTGGTG  
 GTGGTGTGTGCAATCTGAAACCCAGAAGATGAGAGGCGTGGACTCGCAGGGCATGCTACTGTGTGCTT  
 CTGTAGAAGGGGTGAGCCGCCAGGTTGAACCTCTGGACCTCCTGCTGGCTCTGCTCCTGGTGAACGAGT  
 GTTCGTACAGGGCTATGAGAAGGGCCAGCCAGATGAGGAGCTCAAGCCCAAGAAGAAAGTCTTTGAGAAG  
 CTGCAGGCCGACTTTAAATTTCTGAGGAGTGCATCGCACAGTGGAAAGCAAACTTTCATGACCAAGC  
 TGGGATTCGTCCTGTAATCACTAAAAGGGGTAACATCAGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208462 representing NM\_134151  
 Red=Cloning site Green=Tags(s)

MGDAPSPEEKHLHLITRNLQEVLGEEKLKEILKERELKVYWGATTTGKPHVAYFVPMSKIADFLKAGCEVT  
 ILFADLHAYLDNMKAPWELLELRYSYENVIKAMLESIGVPLEKLFKIKGTDYQLSKEYTLDVYRLSSV  
 TQHDAKKAGAEVVKQVEHPLLSGLLYPGLQALDEEYLVDAQFGGVDQRKIFTFAEKYL PALGYSKRVLH  
 MNPMVPLTGSKMSSSEESKIDLLDRKEDVKKLKKAFCEPGNVENNGVLSFIKHLVFLPKSEFVILRD  
 EKWGGNKTYTVYLELEKDFAAEVVHPGDLKNSVEVALNKLLDPIREKFNTPALKKLASAAYPDPKQKPP  
 AKGPAKNSEPEEIVPSRLDIRVGKILSVEKHPDADSLYVEKIDVGEAEPRTVVSGLVQFVPKEELQDRLV  
 VVLCNLKPQKMRGVDSQGMLLCASVEGVSQVEPLDPPAGSAPGERVVFQGYEKQPDEELKPKKKVFEK  
 LQADFKI SEECIAQWKQTNFMTKLG FVSKSLKGGNIS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul



<b>ACCN:</b>	NM_134151
<b>ORF Size:</b>	1584 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_134151.1</a>
<b>RefSeq Size:</b>	2718 bp
<b>RefSeq ORF:</b>	1695 bp
<b>Locus ID:</b>	107271
<b>UniProt ID:</b>	<a href="#">Q91WQ3</a>
<b>Cytogenetics:</b>	4 D2.2
<b>Gene Summary:</b>	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]