

## Product datasheet for **RN204538**

### **Yars2 (NM\_001009627) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Yars2 (NM_001009627) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Yars2
Synonyms:	CGI-04; RGD1311696
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN204538 representing NM\_001009627  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGCGCCCATGCTGAGACACCTGTGCCCGTTCGCGAGTCAGGGTCTGGACACGGGGCCGCGTG  
 CGGTGCGCCCTGGCGCGGGGAATGTTGGTGGCACCAAGGGCCCGCGCCTGTCAAGGAGTTCTTCCC  
 CGAGAGCGGCACGAAGACAGAGCTCCCCAACTCTTTGACCGCCGAGGGCGGGTTCGCCCCAGACTGTG  
 TACTGCGGTTTCGACCCACGGGCGATTGCTGCACGTGGGGCACCTGTTAACTTTATTGGGTCTGTTCC  
 ACTTCCAGCGAGCCGCCACAACGTGATCGCGCTCGTGGGAGGCTCCACGGCTCTCTGGGAGACCCAG  
 CGGCCGACCAAGGAGCGCGAGGCGCTGAGCGCTGAGTGCCTGCGGGCAACGCGCGCCCTGCAGCGA  
 GGGCTGGAGACCTTGGCGGCCAACACGCGCGCCTCTTCGCGGACGGCGGCCCTGGGGCACTTTCACGG  
 TGCTCGACAATGCAGCCTGGTTCAGAAGCAGCACCTAATGGATTTTCTGGCCACGGTGGCGGCCACTT  
 CCGCATGGGCACTCTGCTTAGCCGGCTGAGCGTGCAGTCCGCTCAAGAGCCCAGAGGGCATGAGCTTG  
 GCTGAGTTCTTTACCAGGTGCTCCAGGCTATGACTTCTACTACCTTTCCGGCACTATGGATGCCGGG  
 TCCAGCTGGGCGGATCAGATCAGTTGGCAACATCATGTCTGGCTACGAGTTTATCCACAAGTTGACTGG  
 AGAAGATGTGTTTGAATCACTGTACCTTAATTACAAGTACAACCTGGAGCGAAGCTGGGAAAGTCTGCT  
 GGCAACCGGTTTGGCTAAACAGAGAGAAAACATCTCCGTTTGAACCTTTACCAGTTCTTTATCAGACAGC  
 AAGATGATTCTGTAGAAAGGTACCTGAAGCTTTTCACTTTCCTTCCCCTCCCAGAGATTGATCATATTAT  
 GCAGCTACATGTCAAAGAACCAGAAAAGCGAATTGCTCAGAAACGACTTGCTGCAGAAGTAAACAAGCTT  
 GTTCATGGACAAGAAGGTCTGGACTCTGCGAAAAGGTGACACAAGCCCTTACCATAGCAGCATAGAGG  
 CACTGGAGGTCATGTCTGACCAAGAGTTAAAGGAATTGTTAAAGAAGCTTCATTTTCTGAATTAGTCT  
 TGACCCTGGAACGAGTGTATAGACACATGCCGTAAAGCAAATGCCATTCTGATGGTCCCGAGGGTAT  
 CCGATGATCACAGAAGGTGGAGTCAGTATAAATCACAGACAGGTAACAAATCCTGAAAGTGTTTTAGTAA  
 TTGGACAACATATTCTCAAGAATGGACTTTCCTTACTTAAATAGGAAAAGGAATTTCTACATTATAAA  
 ATGGCTTCAGTT**TGA**

**ACCGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001009627

**Insert Size:** 1416 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.

RefSeq: [NM\\_001009627.1](#), [NP\\_001009627.1](#)  
RefSeq Size: 1588 bp  
RefSeq ORF: 1416 bp  
Locus ID: 287924  
UniProt ID: [Q5I0L3](#)  
Cytogenetics: 11q23  
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]