

Product datasheet for **RR210925**

Yars (NM_001025696) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Yars (NM_001025696) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Yars
Synonyms:	MGC112837
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR210925 representing NM_001025696
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAACCTGACGGGACTAGCGTGACAGTTCCCGCACGCGGAGACGGCGCGCAACGAGGAAAGGGCGCG
 GGTGCCGCTGAGCGCGGAAACCGAGAGAGCGGAGCCATGGGGGATGCTCCAAGCCCTGAGGAGAAGCT
 ACACCTTATCACCCGAACTGCAGGAGTTCTGGGGGAAGAGAAGCTGAAGGAGATACTGAAGGAGCGG
 GAACCTAAAGTTTACTGGGGCACGGCTACCACCGGAAGCCACACGTGGCCTACTTTGTACCCATGTCCA
 AGATTGCTGACTTCTGAAGGCAGGGTGTGAGGTAACCATCCTGTTTGCAGACCTTCATGCATACCTGGA
 CAACATGAAAGCTCCCTGGGAATTCTAGAACTCGAACCAGTTACTACGAAAATGTGATCAAGGCAATG
 CTGGAGAGTATTGGTGTGCCCTGGAGAAGCTCAAGTTTACCAAAGGCACCGACTACCAGCTCAGCAAAG
 AGTACACACTGGATGTGTACCGCTGCCTCCCTGGTACACAACATGATGCCAAGAAAGCCGGGCTGA
 GGTCGTAAGCAGGTGGAGCACCTTTGCTGAGTGGTCTGTTGTATCCCGTCTGCAGGCCTTAGACGAA
 GAGTACTTAAAAGTAGATGCCAGTTTGGCGGTATTGATCAGAGGAAGATTTTTACCTTTGCAGAGAAGT
 ATCTCCCCACACTTGGCTACTCAAACGGGTCCATCTGATGAACCCCATGGTTCCTGGGTTAACTGGGAG
 CAAAATGAGCTCATCAGAAGAGGAGTCCAAAATCGACCTCCTTGATCGGAAGGAGGATGTGAAGAAAAAG
 CTGAAGAAGGCCTTCTGTGAGCCCGCAACGTGGAGAACAATGGGGTGTGTCCTTCGTCAAGCAGCTCC
 TCTTCTCTCAAGTCTGAGTTTGTGATCCTGAGAGATGAGAAGTGGGGTGGAAACAAAACCTACCCAT
 TTACCAGGAGCTGAAAAGGACTTTGCTGCTGAGGTTGTACACCTGGAGACCTAAAGAATTCTGTTGAA
 GTCGCCCTGAACAAGTTGCTGGACCCATTGAGAAAAGTTTAAACCCAGCCCTGAAGAAGCTGGCCA
 GTGCTCCTACCCTGATCCTTCAAAGCAGAAGCCTACTGCCAAAGGCCCTGCCAAGAGTTCAGAACCAGA
 GGAGATCATCCATCCCGCTGGACATCCGTGTGGGCAAAATCCTCAGCGTGGAAAAGCACCCAGATGCA
 GATAGCCTGTATGTGGAGAAGATTGATGTGGGGGAAGCCGAACCCAGGACTGTGGTGAAGCGGCTCGTGC
 AGTTTGTGCCAAAGAAGAACTACAGGACCGACTGGTGGTGGTGTGTGCAACCTGAAACCCAGAAGAT
 GAGAGGAGTGGACTCCCAGGCATGCTACTGTGTCTTCTGTAGAAGGGTAAGCCGCCAGGTGGAACCT
 CTGGACCTCCTGCAGGCTCTGCCCTGGTGAACGGGATTTGTACAGGCTATGAGAAGGGCCAACTG
 ACGAGGAGCTCAAGCCCAAGAAGAAAGTCTTTGAGAAGCTGCAGGCCGACTTAAAGATTTCTGATGACTG
 CGTCGCACAGTGAAGCAAACCAACTTCATGACCAAGCTGGGCTTTGTCTCTGTAATCACTAAAAGG
 GGCAACATCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210925 representing NM_001025696
 Red=Cloning site Green=Tags(s)

MQPDGTSVTPVPGTRRRRRTRKGRGRLSAGNRESGAMGDAPSPPEKLHLITRNLQEVLGEEKLKEILKER
 ELKVYWGTTATGKPHVAYFVPMKSIADFLKAGCEVTILFADLHAYLDNMKAPWELLELRYSYENVIKAM
 LESIGVPLEKLFKGTQYQLSKEYTLQDVYRLSSLVTQHDAAKAGAEVVKQVEHPLL SGLLYPGLQALDE
 EYLVDAQFGGIDQRKIFTFAEKYLPTLGYSKRVHLMNPMVPLTGSKMSSSEEFKIDLLDRKEDVKKK
 LKKAFCPEGNVENNGVLSFVKHVLFPKSEFVILRDEKWWGNKTYTYIQELEKDFAAEVVHPGDLKNSVE
 VALNKLLDPIREKFNTPALKKLASAAYPDPKQKPTAKGPAKSSEPEEIPSRLDIRVGKILSVEKHPDA
 DSLVYEKIDVGEAEPRTVVVSLVQFVPEELQDRLVVVLCNLKPQKMRGVDSQGMMLCASVEGVSRQVEP
 LDPPAGSAPGERVVFQGYEKQPDEELPKKKVFEKLQADFKISDDCVAQWKQTNFMTKLGFSCKSLKG
 GNIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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_001025696.1 , NP_001020867.2
RefSeq Size:	2466 bp
RefSeq ORF:	1695 bp
Locus ID:	313047
UniProt ID:	Q4KM49
Cytogenetics:	5q36
MW:	63 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]