

Product datasheet for **RC238476**

HARS1 (NM_001289094) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HARS1 (NM_001289094) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HARS1
Synonyms:	CMT2W; HARS; HRS; USH3B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238476 representing NM_001289094
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCGAGGAGGAGGTGGCGAACTCCTGAAACTGAAGGCACAGCTGGGTCCTGATGAAAGCAAACAGA
 AATTTGTGCTCAAAACCCCAAGGGCACAAAGACTATAGTCCCGGCAGATGGCAGTTCGCGAGAAGGT
 GTTTGACGTAATCATCCGTTGCTTCAAGCGCCACGGTGCAGAAGTCATTGATACACCTGTATTTGAACTA
 AAGGAAACTGATGGGAAAGTATGGGGAAGACTCCAAGCTTATCTATGACCTGAAGGACCAGGGCGGGG
 AGCTCCTGTCCCTTCGCTATGACCTCACTGTTCTTTTGTGCGTATTTGGCAATGAATAAACTGACCAA
 CATTAAACGCTACCACATAGCAAAGGTATATCGGCGGATAAACCAGCCATGACCCGTGGCCGATACCGG
 GAATTCTACCAGTGTGATTTTACATTGCTGGAACTTTGATCCCATGATCCCTGATGCAGAGTGCCTGA
 AGATCATGTGCGAGATCCTGAGTCACTTCAGATAGGCGACTTCCCTGGTCAAGGTAACGATCGACGCAT
 TCTAGATGGGATGTTTGCTATCTGTGGTGTTCGACAGCAAGTCCGTACCATCTGCTCCTCAGTAGAC
 AAGCTGGACAAGGTGTCCTGGGAAGAGGTGAAGAATGAGATGGTGGGAGAGAAGGGCCTTGACCTGAGG
 TGCTGACCGCATTGGGGACTATGTCCAGCAACATGGTGGGGATCCCTGGTGGAAACAGCTGCTCCAGGA
 TCCTAAACTATCCAAAACAAGCAGGCCTTGGAGGGCCTGGGAGACCTGAAGTTGCTCTTTGAGTACCTG
 ACCCTATTTGGCATTGATGACAAAATCTCCTTTGACCTGAGCCTTGCTCGAGGGCTGGATTACTACACTG
 GGGTGATCTATGAGGCAGTGTCTACAGACCCAGCCAGGCAGGGGAAGAGCCCTGGGTGTGGGCAG
 TGTGGCTGCTGGAGGACGCTATGATGGGCTAGTGGCATGTTGACCCAAAGGGCGCAAGGTGCCATGT
 GTGGGGCTCAGCATTGGGGTGGAGCGGATTTCTCCATCGTGAACAGAGACTAGAGGCTTTGGAGGAGA
 AGATACGGACCAGGAGACACAGTGTCTGTGGCATCTGCACAGAAGAAGCTGCTAGAGGAAAGACTAAA
 GCTTGTCTCAGAACTGTGGGATGCTGGGATCAAGGCTGAGCTGCTGTACAAGAAGAACCCTAAAGCTACTG
 AACCAAGTTACAGTACTGTGAGGAGGCAGGCATCCCACTGGTGGCTATCATCGGCGAGCAGGAACTCAAGG
 ATGGGGTCATCAAGCTCCGTTCACTGACGAGCAGGGAAGAGGTGGATGTCCGAAGAGAAGACCTTGTGGA
 GGAATCAAAGGAGAACAGGCCAGCCCTCTGCATCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238476 representing NM_001289094
 Red=Cloning site Green=Tags(s)

MIEEEVAKLLKLAQLGPDESKQKFLVKTPKGTRDYSRQMAVREKVFVDVIIRCFKRHGAVIDTPVFEL
 KETLMGKYGEDSKLIYDLKDQGGELLSLRYDLVTFARYLAMNKLTKIKRYHIAKVYRRDNPAMTRGRYR
 EFYQCDFDIAGNFDPMIPDAECLKIMCEILSSLQIGDFLVKVNDRRILDGMFAICGVSDSKFRITICSSVD
 KLDKVSWEVKNEMVGEKGLAPEVADRIGDYVQHGGSVSLVEQLLQDPKLSQNKQALEGLGDLKLLFEYL
 TLFGIDDKISFDLSLARGLDYTGVIYEAVLLQTPAQAGEEPLVGSVAAGGRYDGLVGMFDPKGRKVPK
 VGLSIGVERIFSIVEQRLEALEEKIRTTETQVLVASAQKLLLEERLKLVSELWDAGIKAELLYKKNPKLL
 NQLQYCEEAGIPLVAIIIGEQLKDGVIKLRSVTSREEVDVRRDLVEEIKRRTGQPLCIC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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:	<u>NM_001289094.1, NP_001276023.1</u>
RefSeq Size:	2219 bp
RefSeq ORF:	1443 bp
Locus ID:	3035
Cytogenetics:	5q31.3
Protein Pathways:	Aminoacyl-tRNA biosynthesis
MW:	54.7 kDa
Gene Summary:	<p>Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. The protein encoded by this gene is a cytoplasmic enzyme which belongs to the class II family of aminoacyl-tRNA synthetases. The enzyme is responsible for the synthesis of histidyl-transfer RNA, which is essential for the incorporation of histidine into proteins. The gene is located in a head-to-head orientation with HARSL on chromosome five, where the homologous genes share a bidirectional promoter. The gene product is a frequent target of autoantibodies in the human autoimmune disease polymyositis/dermatomyositis. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]</p>