

Product datasheet for **RC232843**

HARS1 (NM_001258041) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HARS1 (NM_001258041) 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:

>RC232843 representing NM_001258041
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGAGCGTGC GGCGCTGGAGGAGCTGGTGA AACTTCAGGGAGAGCGCGTGC GAGGCCCTCAAGCAGC
 AGAAGGCCAGCGCCGAGCTGATCGAGGAGGAGGTGGCGAAACTCCTGAAACTGAAGGCACAGCTGGGTCC
 TGATGAAAGCAAACAGAAATTTGTGCTCAAACCCCAAGGGCACAAGAGACTATAGTCCCCGGCAGATG
 GCAGTTCGCGAGAAGGTGTTGACGTAATCATCCGTTGCTTCAAGCGCCACGGTGCAGAAGTCATTGATA
 CACCTGTATTTGAACTAAAGGAAACTGATGGGAAAGTATGGGGAAGACTCCAAGCTTATCTATGACCT
 GAAGGACCAGGGCGGGGAGCTCCTGTCCCTTCGCTATGACCTCACTGTTCCCTTTTCTCGGTATTTGGCA
 ATGAATAAACTGACCAACATTAACGCTACCACATAGCAAAGGATTTTGACATTGCTGGGAACTTTGATC
 CCATGATCCCTGATGCAGAGTGCCTGAAGATCATGTGCGAGATCCTGAGTTCACCTCAGATAGGCGACTT
 CCTGGTCAAGGTAACGATCGACGACTTCTAGATGGGATGTTTGCTATCTGTGGTGTTCGACAGCAAG
 TTCCGTACCATCTGCTCCCTCAGTAGACAAGCTGGACAAGGTGTCCTGGGAAGAGGTGAAGAATGAGATGG
 TGGGAGAGAAGGGCCTTGACCTGAGGTGGCTGACCGCATTGGGGACTATGTCCAGCAACATGGTGGGGT
 ATCCCTGGTGGAAACAGCTGCTCCAGGATCCTAAACTATCCAAAACAAGCAGGCCTTGGAGGGCCTGGGA
 GACCTGAAGTTGCTCTTTGAGTACCTGACCCTATTTGGCATTGATGACAAAATCTCCTTTGACCTGAGCC
 TTGCTCGAGGGCTGGATTACTACACTGGGGTGATCTATGAGGCAGTGCTGCTACAGACCCAGCCAGGC
 AGGGGAAGAGCCCTGGGTGTGGCAGTGTGGCTGCTGGAGGACGCTATGATGGGCTAGTGGGCATGTTG
 GACCCCAAAGGGCGCAAGGTGCCATGTGTGGGCTCAGCATTGGGGTGGAGCGGATTTTCTCCATCGTGG
 AACAGAGACTAGAGGCTTTGGAGGAGAAGATACGGACCACGAGACACAGGTGCTGTGGCATCTGCACA
 GAAGAAGCTGCTAGAGGAAAGACTAAAGCTTGTCTCAGAAGTGTGGGATGCTGGGATCAAGGCTGAGCTG
 CTGTACAAGAAGAACCCTAAAGCTACTGAACAGTTACAGTACTGTGAGGAGGCAGGCATCCCACTGGTGG
 CTATCATCGGCGAGCAGGAACTCAAGGATGGGGTCAAGCTCCGTTCAAGTACGAGCAGGGAAGAGGT
 GGATGTCCGAAGAGAAGACCTTGTGGAGGAAATCAAAGGAGAACAGGCCAGCCCTCTGCATCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232843 representing NM_001258041
 Red=Cloning site Green=Tags(s)

MAERAALEELVKLQGERVRGLKQKASAELEIEEVAKLLKKAQLGPDESKQKFLKTPKTRDYSRQM
 AVREKVFVDVIIRCFKRHGAVIDTPVFEKELTMGKYGEDSKLIYDLKDQGGELLSLRYDLTVPFARYLA
 MNKLTNIKRYHIAKDFDIAGNFDPMIPDAECLKIMCEILSSLQIGDFLVKVNDRRILDGMFAICGVSDSK
 FRTICSSVDKLDKVSWEVKNEMVGEKLAPEVADRIGDYVQHGGSLSLVEQLLQDPKLSQNKQALEGLG
 DLKLLFEYLTFLGIDDKISFDLSLARGLDYYTGVIEAVLLQTPAQAGEEPLGVGSVAAGGRYDGLVGMF
 DPKGRKVPVGLSIGVERIFSIVEQRLEALEEKIRTTETQVLVSAQKLLLEERLKLVELWDAGIKAEL
 LYKKNPKLLNLQYCEEAGIPLVAIIGEQLKDGVIKLRVTSREEVDVRRREDLVEEIKRRTGQPLCIC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

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_001258041.2 , NP_001244970.1
RefSeq Size:	2262 bp
RefSeq ORF:	1470 bp
Locus ID:	3035
UniProt ID:	P12081
Cytogenetics:	5q31.3
Protein Pathways:	Aminoacyl-tRNA biosynthesis
MW:	55.3 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>