

Product datasheet for **RC232798**

HARS1 (NM_001258040) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | HARS1 (NM_001258040) 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:

>RC232798 representing NM_001258040
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGAGCGTGC GGCGCTGGAGGAGCTGGTGA AACTTCAGGGAGAGCGCGTGC GAGGCCCTCAAGCAGC
 AGAAGGCCAGCGCCGAGCTGATCGAGGAGGAGGTGGCGAAACTCCTGAAACTGAAGGCACAGCTGGGTCC
 TGATGAAAGCAAACAGAAATTTGTGCTCAAACCCCAAGGAAACTGATGGGAAAGTATGGGGAAGAC
 TCCAAGCTTATCTATGACCTGAAGGACCAGGGCGGGGAGCTCCTGTCCCTTCGCTATGACCTCACTGTTC
 CTTTTGCTCGGTATTTGGCAATGAATAAACTGACCAACATTAACGCTACCACATAGCAAAGGTATATCG
 GCGGGATAACCCAGCCATGACCCGTGGCCGATACCGGGAATCTACCAGTGTGATTTTGACATTGCTGGG
 AACTTTGATCCCATGATCCCTGATGCAGAGTGCCTGAAGATCATGTGCGAGATCCTGAGTTCACCTCAGA
 TAGGCGACTTCCTGGTCAAGGTAACGATCGACGCATTCTAGATGGGATGTTTGCTATCTGTGGTGTTC
 TGACAGCAAGTTCGTACCATCTGCTCCTCAGTAGACAAGCTGGACAAGGTGCTCTGGGAAGAGGTGAAG
 AATGAGATGGTGGGAGAGAAGGGCCTTGCACTGAGGTGGCTGACCGCATTGGGGACTATGTCCAGCAAC
 ATGGTGGGGTATCCCTGGTGAACAGCTGCTCCAGGATCCTAAACTATCCAAAACAAGCAGGCCTTGGA
 GGGCCTGGGAGACCTGAAGTTGCTCTTTGAGTACCTGACCCTATTTGGCATTGATGACAAAATCTCCTTT
 GACCTGAGCCTTGCTCGAGGGCTGGATTACTACACTGGGGTGATCTATGAGGCAGTGTGCTACAGACCC
 CAGCCCAGGCAGGGGAAGAGCCCTGGGTGTGGCAGTGTGGCTGCTGGAGGACGCTATGATGGGCTAGT
 GGGCATGTTGACCCAAAGGGCGCAAGGTGCCATGTGTGGGGCTCAGCATTGGGGTGGAGCGGATTTTC
 TCCATCGTGGAACAGAGACTAGAGGCTTTGGAGGAGAAGATACGGACCACGGAGACACAGGTGCTGTGG
 CATCTGCACAGAAGAAGCTGCTAGAGGAAAGACTAAAGCTTGTCTCAGAAGTGTGGGATGCTGGGATCAA
 GGCTGAGCTGCTGTACAAGAAGAACCCTAAAGCTACTGAACAGTTACAGTACTGTGAGGAGGCAGGCATC
 CCACTGGTGGCTATCATCGGCGAGCAGGAACTCAAGGATGGGGTTCATCAAGCTCCGTTTCAGTGACGAGCA
 GGGAAAGAGGTGGATGTCCGAAGAGAAGACCTTGTGGAGGAAATCAAAGGAGAACAGGCCAGCCCTCTG
 CATCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232798 representing NM_001258040
 Red=Cloning site Green=Tags(s)

MAERAALEELVKLQGERVRGLKQKASAELEEEVAKLLKLAQLGPDESKQKFLVLTTPKETLMGKYGED
 SKLIYDLKDQGGELLSLRYDLVTFARYLAMNKL TNIKRYHIAKVYRRDNPAMTRGRYREFYQCDFDIAG
 NFDPMIPDAECLKIMCEILSSLQIGDFLVKVNDRRILDGMFAICGVSDSKFRTICSSVDKLDKVSWEVVK
 NEMVGEKGLAPEVADRIGDYVQHGGSVSLVEQLLQDPKLSQNKQALEGLGDLKLLFEYLTFLFGIDDKISF
 DLSLARGLDYYTGVIEAVLLQTPAQAGEEPLGVGSVAAGGRYDGLVGMFDPKGRKVPVGLSIGVERIF
 SIVEQRLEALEEKIRTTETQVLVASAQKLLERLKL VSELWDAGIKAELLYKKNPKLLNLQYCEEAGI
 PLVAIIGEQELKDGVIKLRSVTSREEVDVRRREDLV EEIKRRTGQPLCIC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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| 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_001258040.2 , NP_001244969.1 |
| RefSeq Size: | 2202 bp |
| RefSeq ORF: | 1410 bp |
| Locus ID: | 3035 |
| UniProt ID: | P12081 |
| Cytogenetics: | 5q31.3 |
| Protein Pathways: | Aminoacyl-tRNA biosynthesis |
| MW: | 53.2 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> |