

Product datasheet for RC237952

HARS1 (NM_001289093) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HARS1 (NM_001289093) 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
ORF Nucleotide Sequence:	>RC237952 representing NM_001289093 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCAGAGCGTGC GGCGCTGGAGGAGCTGGTAAACTTCAGGGAGAGCGCGTGCGAGGCCCTCAAGCAGC
AGAAGGCCAGCGCCGAGCTGATCGAGGAGGAGGTGGCGAAACTCCTGAAACTGAAGGCACAGCTGGGTCC
TGATGAAAGCAAACAGAAATTTGTGCTCAAACCCCAAGGATTTTGACATTGCTGGAACTTTGATCCC
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TGGTCAAGGTAACGATCGACGCATTCTAGATGGGATGTTTGCTATCTGTGGTGTCTGACAGCAAGTT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
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Protein Sequence: >RC237952 representing NM_001289093
 Red=Cloning site Green=Tags(s)

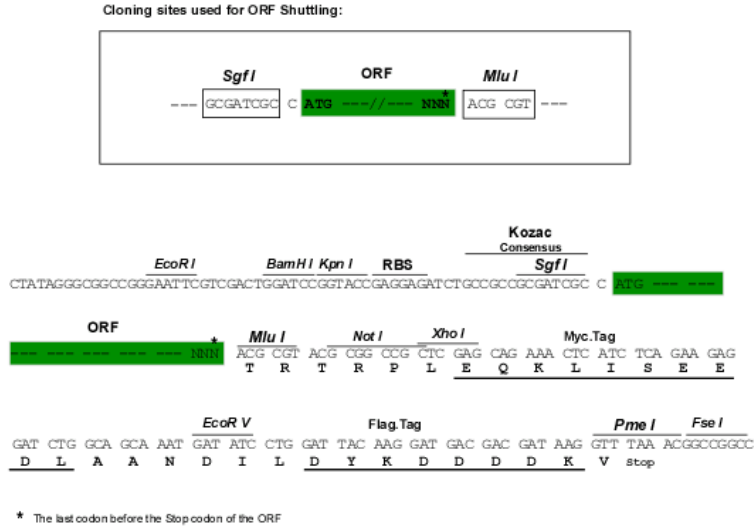
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 GEKGLAPEVADRIGDYVQQHGGVSLVEQLLQDPKLSQNKALEGLGDLKLLFEYLTFFGIDDKISFDLSL
 ARGLDYYTGVIYEAVLLQTPAQAGEEPLGVGSAAGGRYDGLVGMFDPKGRKVPVCVGLSIGVERIFSIVE
 QRLEALEEKIRTTETQVLVASAQKLLLEERLKLVELWDAGIKAELLYKKNPKLLNQLQYCEEAGIPLVA
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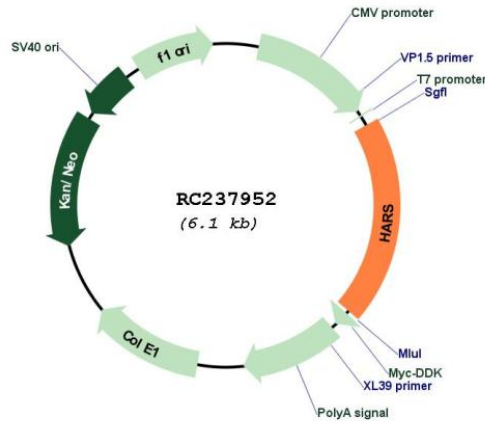
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289093

ORF Size:	1185 bp
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_001289093.1 , NP_001276022.1
RefSeq Size:	1964 bp
RefSeq ORF:	1188 bp
Locus ID:	3035
Cytogenetics:	5q31.3
Protein Pathways:	Aminoacyl-tRNA biosynthesis
MW:	44.3 kDa
Gene Summary:	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]