OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC217120

Hars2 (NM_080636) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hars2 (NM_080636) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hars2
Synonyms:	4631412B19Rik; H; Harsl; HARSR; HO; HO3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC217120 representing NM_080636
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCCACCTGGGGCCACTGCGTCGCAGGGCCTGGGCTGCGCTGCTCGGCCAGCTCCTGCGACCTCCCA
GCACTGTGTGCACCCGCGGCTGTCATAGCCAGGTTGCAAAGGCAGTGTTAACGTCTGAACAACTGAAATC
CCATCAAGAGAAGCCGAATTTTGTCATCAAGGTTCCAAAGGGCACCAGGGATTTAAGTCCTCAACAGATG
GTTGTGAGGGAGAAAATCCTCGATAAGATTATCAGCTGTTTCAAACGTCATGGGGCGAAGGGGTTGGATA
CACCAGCGTTTGAGCTAAAAGAAATGCTCACCGAGAAGTATGAAGACAACTTCGGCCTCATGTATGATTT
GAAGGATCAAGGTGGAGAGTTGTTGTCTCTGCGCTATGACCTTACTGTCCCTTTTGCTCGATATCTGGCC
ATGAATAAACTGAAGAAAATGAAACGATACCAAGTTGGAAAGGTCTGGAGGCGAGAGAGCCCAGCTATAG
CCCAGGGCCGCTACCGGGAGTTCTGCCAGTGTGATTTTGACATTGCTGGTGAGTTTGACCCAATGATCCC
TGATGCAGAGTGTTTGAGGATCATGTGTGAAATCCTAAGTGGACTGCAGCTGGGGGACTTTCTCATTAAG
GTAAATGACCGTCGGGTTGTAGATGGGATATTTGCTGTCTGTGGTGTTCCTGAGAGCAAGCTCCGAACCA
TCTGCTCCTCAATGGACAAACTAGACAAGATGTCTTGGGAAGGCGTGAGGCATGAGATGGTGGCAAAGAA
AGGTCTAGCTCCCGAGGTGGCCGATCGAATTGGGGACTTCGTCCAATATCATGGGGGGATATCCCTGGTT
GAGGACTTGTTCAAGGATCCCAGACTATCCCAAAGCCAGCTGGCCTTGCAGGGCCTAGGGGACCTGAAGC
TGCTCTTTGAATACCTGAGGTTATTTGGAATTGCTGATAAGATCTCCCTTGATCTGAGTCTGGCCCGGGG
CCTGGACTATTATACTGGAGTGATTTATGAAGCAGTACTGCTAGAGTCTCCAGCTCAGGCTGGAAAGGAA
ACTCTGAGTGTGGGTAGTGTGGCTGCTGGTGGGCGCTATGACAATCTGGTAGCCCAGTTTGATCCCAAGG
GCCATCACGTGCCTTGTGTGGGGTTGAGCATTGGAGTAGAGAGAATCTTCTACCTTGTGGAACAGAAGAT
GAAGATGTCTGGTGAGAAGGTTCGCACCACAGAGACCCAAGTGTTTGTGGCCACACCCCAGAAGAACTTT
CTCCAAGAACGTTTGAAGATAATTGCAGAGCTTTGGGATGCCGGGATCAAGGCAGAGATGCTTTATAAAA
ACAACCCTAAACTGTTAACCCAGCTGCACTATTGTGAGAAAGCAGACATTCCTCTGATGGTCATTATTGG
TGAGCAAGAGCGGAATGAAGGTGTCATCAAGCTCCGTTCCGTGGCCAGCAGAGAAGAAGTGACCATTAAT
CGAGAAAGTCTCGTGGCTGAAATTCAGAAGCGACTGTCTGAGTCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_080636

Insert Size: 1518 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).

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Reconstitution Method:	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_080636.2, NP_542367.1
RefSeq Size:	3146 bp
RefSeq ORF:	1518 bp
Locus ID:	70791
UniProt ID:	Q99KK9
Cytogenetics:	18 B2
Gene Summary:	This gene encodes a putative member of the class II family of aminoacyl-tRNA synthetases. These enzymes play a critical role in protein biosynthesis by charging tRNAs with their cognate amino acids. This protein is encoded by the nuclear genome but is likely to be imported to the mitochondrion where it is thought to catalyze the ligation of histidine to tRNA molecules. Mutations in a similar gene in human have been associated with Perrault syndrome 2 (PRLTS2). [provided by RefSeq, Mar 2015] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

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