

Product datasheet for **MR208134**

Hars2 (NM_080636) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR208134 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCCACCTGGGGCCACTGCGTCGCAGGGCCTGGGCTGCGCTGCTCGCCAGCTCCTGCGACCTCCCA
 GCACTGTGTGCACCCCGGCTGTATAGCCAGGTTGCAAAGGCAGTGTTAACGTCTGAACAACCTGAAATC
 CCATCAAGAGAAGCCGAATTTTGCATCAAGGTTCCAAAGGGCACCAGGGATTTAAGTCCTCAACAGATG
 GTTGTGAGGGAGAAAATCCTCGATAAGATTATCAGCTGTTTCAAACGTCATGGGGCGAAGGGGTTGGATA
 CACCAGCGTTTGAAGTAAAAGAAATGCTCACCGAGAAGTATGAAGACAACCTCGGCCCTATGTATGATTT
 GAAGGATCAAGGTGGAGAGTTGTTGTCTCTGCGCTATGACCTTACTGTCCCTTTTCTCGATATCTGGCC
 ATGAATAAACTGAAGAAAATGAAACGATACCAAGTTGGAAAGGTCTGGAGGCGAGAGAGCCAGCTATAG
 CCCAGGGCCGCTACCGGGAGTTCTGCCAGTGTGATTTTGACATTGCTGGTGTGATTTGACCAATGATCCC
 TGATGCAGAGTGTGGAGATCATGTGTGAAATCCTAAGTGGACTGCAGCTGGGGGACTTTCTCATTAAAG
 GTAATGACCGTCCGGTTGTAGATGGGATATTTGCTGTCTGTGGTGTTCCTGAGAGCAAGCTCCGAACCA
 TCTGCTCCTCAATGGACAACCTAGACAAGATGTCTTGGGAAGGCGTGAGGCATGAGATGGTGCAAGAA
 AGGTCTAGCTCCCAGGTTGGCCGATCGAATTGGGGACTTCGTCCAATATCATGGGGGATATCCCTGGTT
 GAGGACTTGTCAAGGATCCCAGACTATCCCAAAGCCAGCTGGCCTTGCAAGGGCCTAGGGGACCTGAAGC
 TGCTCTTTGAATACCTGAGGTTATTTGGAATTGCTGATAAGATCTCCCTTGATCTGAGTCTGGCCCGGG
 CCTGGACTATTACTGGAGTGATTTATGAAGCAGTACTGCTAGAGTCTCCAGCTCAGGCTGGAAGGAA
 ACTCTGAGTGTGGGTAGTGTGGCTGCTGGTGGGCGCTATGACAATCTGCTAGCCAGTTTGTATCCCAAGG
 GCCATCACGTGCCTTGTGTGGGTTGAGCATTGGAGTAGAGAGAATCTTCTACCTTGTGGAACAGAAGAT
 GAAGATGTCTGGTGAGAAGGTTTCGACCACAGAGACCCAAAGTGTGTTGTGGCCACACCCAGAAAGACTTT
 CTCCAAGAAGCTTTGAAGATAATTGCAGAGCTTTGGGATGCCGGGATCAAGGCAGAGATGCTTTATAAAA
 ACAACCTAAACTGTTAACCAGCTGCACTATTGTGAGAAAGCAGACATTCCTCTGATGGTCATTATTGG
 TGAGCAAGAGCGGAATGAAGGTGTATCAAGCTCCGTTCCGTGGCCAGCAGAGAAGTACCATTAAAT
 CGAGAAAGTCTCGTGGCTGAAATTCAGAAGCGACTGTCTGAGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208134 protein sequence
 Red=Cloning site Green=Tags(s)

MPHLGPLRRRAWAALLGQLLRPPSTVCTRGCCHSQVAKAVLTSEQLKSHQEKPNFVIKVPKGRDLSPQQM
 VVREKILDKIISCFKRHGAKGLDTPAFELKEMLTEKYEDNFGMLMYDLKDQGGELLSLRYDLVVPFARYLA
 MNKLLKMKRYQVGVVRRSPAIAQGRYREFCQCDFDIAGEFDPMPDAECLRIMCEILSGLQLGDFLIK
 VNDRRVVDGIFAVCGVPESKLRITICSSMDKLDKMSWEGVRHEMVAKKGLAPEVADRIGDFVQYHGGISLV
 EDLFDKPRLSQSQLALQGLGDLKLLFEYLRLEFGIADKISLDLSLARGLDYYTGVIEAVLLESPAQAGKE
 TLSVGSVAAGGRYDNLVAQFDPKGHHVPCVGLSIGVERIFYLVEQKMKMSGEKVRTTETQVVFATPQKNF
 LQERLKIIEALWDAGIKAEMLYKNNPKLLTQLHYCEKADIPLMVIIGEQRNEGVIKLRSVASREEVTIN
 RESLVAEIQKRLSES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_080636

ORF Size: 1518 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:

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: 3075 bp

RefSeq ORF: 1518 bp

Locus ID: 70791

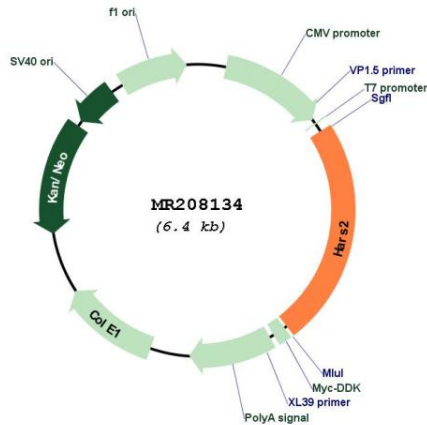
UniProt ID: [Q99KK9](#)

Cytogenetics: 18 B2

MW: 57 kDa

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]

Product images:



Circular map for MR208134