

Product datasheet for RC204009L4V

OriGene Technologies, Inc.

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HARS (HARS1) (NM 002109) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: HARS (HARS1) (NM_002109) Human Tagged ORF Clone Lentiviral Particle

Symbol: HARS1

Synonyms: CMT2W; HARS; HRS; USH3B

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

ACCN: NM_002109 **ORF Size:** 1527 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC204009).

Sequence:

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.

RefSeg: NM 002109.3

 RefSeq Size:
 1981 bp

 RefSeq ORF:
 1530 bp

 Locus ID:
 3035

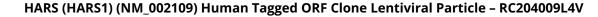
 UniProt ID:
 P12081

 Cytogenetics:
 5q31.3

Domains: WHEP-TRS, tRNA-synt_2b, HGTP_anticodon

Protein Pathways: Aminoacyl-tRNA biosynthesis





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MW: 57.2 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]