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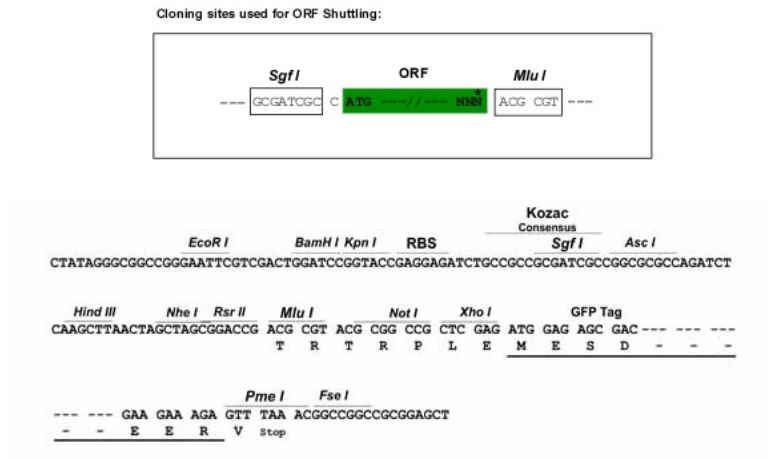
# Product datasheet for RG237952

## HARS1 (NM_001289093) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | HARS1 (NM_001289093) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | HARS1 |
| **Synonyms:** | CMT2W; HARS; HRS; USH3B |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |
| **Restriction Sites:** | SgfI-MluI |
| **Cloning Scheme:** | |

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|---|---|
| **ACCN:** | NM_001289093 |
| **ORF Size:** | 1185 bp |

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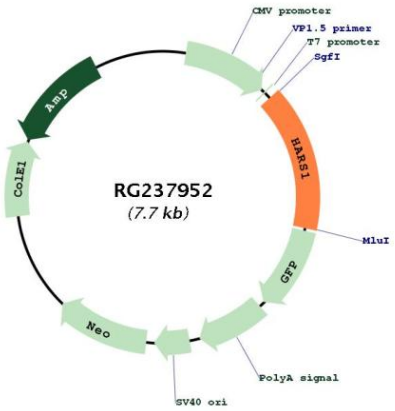
|---|---|
| **OTI Disclaimer:** | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. 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). |
| **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] |

## Product images:




Circular map for RG237952