

Product datasheet for **MC228507**

Kars (NM_001286384) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kars (NM_001286384) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kars
Synonyms:	AA589550; AL024334; AL033315; AL033367; D8Erttd698e; D8Wsu108e; LysRS; mKIAA0070
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228507 representing NM_001286384
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGTTGATGCAAGCTGCTGTCAGGCTTGTAGGGGGCCCTGCGCCAAACCTCATGGGCAGAATGGGGTC
 AGAGGGAACCTCGACTGGGCCACCTTGCTCCTTTACAACGCTCCACAAGGACCAGCCACTTTCTGATAG
 AAGAAAGTGAAGAGGCGTCTGAAAGCTGAGAAGAACTGGCAGAGAAGGAGCCAAGCAGAAAGAG
 CTGAGTGAGAAACAGCTAAACCAGACTGCTCCGCTCCCAACCACACGGCTGACAATGGCGTGGTGCTG
 AGGAGGAGACTCTGGACCCAAATCAATACTACAAGATCCGAAGTCAAGCCGTCCAGCAGCTGAAGGTCAC
 TGGGGAGGATCCGTACCCACACAAGTTCACGTGGACATCTCACTCACTCAGTTCATCCAAGAATATAGT
 CACCTGCAGCCTGGGGACCCTGACTGATGTACCCCTCAAAGTGGCAGGCCGCATCCACGCCAAGAGGG
 CCTCTGGAGGGAAGCTCATCTTCTATGACCTGCGAGGAGAGGGGGTCAAGTTACAAGTCATGGCCAACTC
 CAGGAATTACAAATCAGAGGAGGAATTTGTTTCATATCAATAACAACTGCGCCGGGAGACATAATTGGA
 GTTGAGGGCAATCCCGGGAACCAAGAAGGGCGAGCTGAGCATCATCCCCAGGAGATCAGCTGCTGT
 CCCCCTGCTTGCACATGCTGCCTCATCTTCACTTTGGCCTCAAAGACAAGGAAACACGGTATCGTCAAAG
 ATACTTGGACTTGATCCTGAACGACTTTGTGAGGCAGAAATTTATCGTCCGCTCTAAGATCATCACATAC
 ATAAGAAGTTTCTTGATGAGCTGGGCTTCCTAGAGATCGAACTCCCATGATGAACATATTCCCGGGG
 GAGCTGTGGCCAGCCTTTCATCACCTATCACAATGAGCTGGACATGAATTGTATGAGAATTGCTCC
 AGAACTCTACCACAAGATGCTGGTGGTGGTGGCATTGACCGGGTTTATGAAATTGGGCGCCAGTTCCGG
 AACGAAGGATTGATTTGACTCACAATCCTGAGTTCACCACCTGTGAGTTCTACATGGCCTATGCAGACT
 ATCATGACCTCATGGAGATCAGAGAGAAGATGCTGTGAGGATGGTGAAGAGCATTACAGGCAGTTACAA
 GATCACCTACCAACCCAGATGGGCCGGAAGGCCAAGCCTACGAGGTCGACTTCACCCACCCCTCCGAAGA
 ATCAGCATGGTAGAAGAGCTTGAGAAAGCCCTAGGTGTGAAGCTGCCAGAAACAGTCTCTTTGAAACTG
 AAGAACTCGGAAAATTCTTGATGATATTTGTGTTGCAAAAGCTGTTGAATGCCCCCACCTCGGACCAC
 AGCCAGGCTCCTTGATAAGCTCGTTGGCGAGTTCCTCGAAGTCACATGCATCAGCCCTACCTTCATCTGT
 GATCACCCACAGATCATGAGTCTTTGGCCAAATGGCACCGCTCCAAAGAGGGTCTCAGGAGCGCTTTG
 AGCTGTTTGTATGAAGAAGGAGATATGAATGCCTATACTGAGCTGAATGACCCGTGCGGCAGAGGCA
 GCTGTTTGAGGAGCAGGCCAAGGCCAAGGCTGCCGGTGTGACGAGGCCATGTTTCATAGACGAGAACTTC
 TGTACTGCCCTGGAATACGGGCTGCCTCCACAGCGGGCTGGGGCATGGGCATTGATCGGCTCACCATGT
 TTCTACCGATTCCAACAATATCAAGGAAGTACTTCTGTTTCTGCCATGAAGCCAGAGGACAAGAAGGA
 AACTGCAGCGACCACTGAAACCCAGAGAGCACAGAGGCCAGCCCTCTGT**CTAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001286384

Insert Size: 1875 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001286384.1, NP_001273313.1</u>
RefSeq Size:	2283 bp
RefSeq ORF:	1875 bp
Locus ID:	85305
Cytogenetics:	8 58.27 cM
Gene Summary:	Catalyzes the specific attachment of an amino acid to its cognate tRNA in a 2 step reaction: the amino acid (AA) is first activated by ATP to form AA-AMP and then transferred to the acceptor end of the tRNA. When secreted, acts as a signaling molecule that induces immune response through the activation of monocyte/macrophages. Catalyzes the synthesis of the signaling molecule diadenosine tetraphosphate (Ap4A), and thereby mediates disruption of the complex between HINT1 and MITF and the concomitant activation of MITF transcriptional activity.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 4. Variants 1, 3, 4, and 5 all encode the same 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.