

Product datasheet for **MC219848**

Kars (NM_001130868) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kars (NM_001130868) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kars
Synonyms:	AA589550; AL024334; AL033315; AL033367; D8Ertd698e; D8Wsu108e; LysRS; mKIAA0070
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219848 representing NM_001130868
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGATGCAAGCTGCTGTCAGGCTTGTAGGGGGCCCTGCGCCAAACCTCATGGGCAGAATGGGGTC
 AGAGGAACTTCGACTGGGCCACCTTGCTCCTTTCACAACGCTCCACAAGGACCAGCCACTTCTGATAG
 AAGAAGTGAGCTGAAGAGGCGTCTGAAAGCTGAGAAGAACTGGCAGAGAAGGAGCCCAAGCAGAAAGAG
 CTGAGTGAGAAACAGCTAAACCAGACTGCTCCGCTCCCAACCACACGGCTGACAATGGCGTGGGTGCTG
 AGGAGGAGACTCTGGACCCAAATCAATACTACAAGATCCGAAGTCAAGCCGTCCAGCAGCTGAAGGTCAC
 TGGGGAGGATCCGTACCCACACAAGTCCACGTGGACATCTCACTCACTCAGTTCATCCAAGAATATAGT
 CACCTGCAGCCTGGGGACCCTGACTGATGTCACCCTCAAAGTGGCAGGCCGCATCCACGCCAAGAGGG
 CCTCTGGAGGGAAGCTCATCTTCTATGACTGCGAGGAGAGGGGTCAAGTTACAAGTCATGGCCAACTC
 CAGGAATTACAAATCAGAGGAGGAATTTGTTTCATATCAATAACAACTGCGCCGGGAGACATAATTGGA
 GTTGAGGGCAATCCCGGAAAACCAAGAAGGGCGAGCTGAGCATCATCCCCAGGAGATCACGCTGCTGT
 CCCCCTGCTTGACATGCTGCCTCATCTTCACTTTGGCCTCAAAGACAAGGAAACACGGTATCGTCAAAG
 ATACTTGGACTTGATCCTGAACGACTTTGTGAGGCAGAAATTTATCGTCCGCTCTAAGATCATCACATAC
 ATAAGAAGTTTCTTGGATGAGCTGGGCTTCTAGAGATCGAAACTCCCATGATGAACATCATTCCCGGGG
 GAGCTGTGGCCAAAGCCTTTCATCACCTATCACAATGAGCTGGACATGAATTGTATATGAGAATTGCTCC
 AGAACTTACCACAAGATGCTGGTGGTTGGTGGCATTGACCGGGTTTATGAAATTGGGCGCCAGTTCCGG
 AACGAAGGATTGATTTGACTCACAATCCTGAGTTCACCACCTGTGAGTCTACATGGCCTATGCAGACT
 ATCATGACCTCATGGAGATCACAGAGAAGATGCTGTCAGGGATGGTGAAGAGCATTACAGGCAGTTACAA
 GATCACCTACCACCCAGATGGGCCGGAAGGCCAAGCCTACGAGGTCGACTTCAACCCACCCCTCCGAAGA
 ATCAGCATGGTAGAAGAGCTTGAGAAAGCCCTAGGTGTGAAGCTGCCAGAAACCAGTCTCTTTGAAACTG
 AAGAACTCGGAAAATTCTTGATGATATTTGTGTTGCAAAGCTGTTGAATGCCCCACCTCGGACCAC
 AGCCAGGCTCCTTGATAAGCTCGTTGGCGAGTTCCTCGAAGTCACATGCATCAGCCCTACCTTCATCTGT
 GATCACCCACAGATCATGAGTCTTTGGCCAAATGGCACCGCTCCAAAGAGGGTCTCACGGAGCGCTTTG
 AGCTGTTTGTATGAAGAAGGAGATATGCAATGCCTATACTGAGCTGAATGACCCCGTCCGCGAGAGGCA
 GCTGTTTGGAGGAGCAGGCCAAGGCCAAGGCTGCCGGTATGACGAGGCCATGTTTCATAGACGAGAACTTC
 TGTACTGCCCTGGAATACGGGCTGCCTCCACAGCGGGCTGGGGCATGGGCATTGATCGGCTCACCATGT
 TTCTACCGATTCCAACAATATCAAGGAAGTACTTCTGTTTCTGCCATGAAGCCAGAGGACAAGAAGGA
 AACTGCAGCGACCACTGAAACCCAGAGAGCACAGAGGCCAGCCCTCTGTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001130868

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).

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:	<ol style="list-style-type: none">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:	<u>NM_001130868.2, NP_001124340.1</u>
RefSeq Size:	2223 bp
RefSeq ORF:	1875 bp
Locus ID:	85305
Cytogenetics:	8 58.27 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) 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.</p>