

Product datasheet for **RC200311A1V**

Human Lysyl tRNA synthetase (KARS) (NM_005548) AAV Particle

Product data:

Product Type:	AAV Particles
Product Name:	Human Lysyl tRNA synthetase (KARS) (NM_005548) AAV Particle
Tag:	Myc-DDK
Symbol:	KARS
Synonyms:	CMTRIB; DEAPLE; DFNB89; KARS; KARS2; KRS; LEPID
Mammalian Cell Selection:	None
Vector:	pAAV-AC-Myc-DDK (PS100089)



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ORF Nucleotide Sequence:

>RC200311 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGGCCGTGCAGGCGGCCGAGGTGAAAGTGGATGGCAGCGAGCCGAACTGAGCAAGAATGAGCTGA
 AGAGACGCTGAAAGCTGAGAAGAAAGTAGCAGAGAAGGAGGCCAAACAGAAGGAGCTCAGTGAGAAACA
 GCTAAGCCAAGCCACTGCTGCTGCCACCAACCACCACTGATAATGGTGTGGGTCTGAGGAAGAGAGC
 GTGGACCCAAATCAATACTACAAAATCCGCAGTCAAGCAATTCATCAGCTGAAGGTCAATGGGGAAGACC
 CATACCCACACAAGTTCCATGTAGACATCTCACTCACTGACTTCATCCAAAAATATAGTCACCTGCAGCC
 TGGGGATCACCTGACTGACATCACCTTAAAGGTGGCAGGTAGGATCCATGCCAAAAGAGCTTCTGGGGGA
 AAGCTCATCTTCTATGATCTTCGAGGAGAGGGGTGAAGTTGCAAGTCATGGCCAATTCAGAAATTATA
 AATCAGAAGAAGATTTATTCATATTAATAACAACTGCGTCGGGGAGACATAATTGGAGTTCAGGGGAA
 TCCTGGTAAAACCAAGAAGGTGAGCTGAGCATATTCCGTATGAGATCACACTGCTGTCTCCCTGTTTG
 CATATGTTACCTCATCTTCACTTTGGCCTCAAAGACAAGGAAACAAGGTATCGCCAGAGATACTTGGACT
 TGATCCTGAATGACTTTGTGAGGCAGAAATTTATCATCCGCTCTAAGATCATCATATATAAGAAGTTT
 CTTAGATGAGCTGGGATTCCTAGAGATTGAACTCCCATGATGAACATCATCCAGGGGGAGCCGTGGCC
 AAGCCTTTCATCACTTATCACAACGAGCTGGACATGACTTATATGAGAATTGCTCCAGAAGCTCTATC
 ATAAGATGCTTGTGGTGGTGGCATCGACCGGTTTATGAAATGGACGCCAGTTCGGGAATGAGGGGAT
 TGATTTGACGCACAATCCTGAGTTCACCACCTGTGAGTTCTACATGGCCTATGCAGACTATCACGATCTC
 ATGGAAATCACGGAGAAGATGGTTTCAGGGATGGTGAAGCATATTACAGGCAGTTACAAGGTACCTACC
 ACCCAGATGGCCAGAGGGCCAAGCCTACGATGTTGACTTCACCCACCCTTCGGCGCAATCAACATGGT
 AGAAGAGCTTGAGAAAGCCTGGGGATGAAGCTGCCAGAAACGAACCTCTTTGAAACTGAAGAACTCGC
 AAAATTCTTGATGATATCTGTGTGGCAAAGCTGTTGAATGCCCTCCACCTCGGACCACAGCCAGGCTCC
 TTGACAAGCTTGTGGGGAGTTCCTGGAAGTGAATGCAATCCTACATTCATCTGTGATACCCACA
 GATAATGAGCCCTTTGGCTAAATGGCACCCTCTAAAGAGGTCTGACTGAGCGCTTTGAGCTGTTTGT
 ATGAAGAAAGAGATATGCAATGCGTATACTGAGCTGAATGATCCCATGCGGCAGCGGCAGCTTTTGAAG
 AACAGGCCAAGGCCAAGGCTGCAGGTGATGATGAGGCCATGTTATAGATGAAAACCTTCTGTACTGCCCT
 GGAATATGGGCTGCCCCCAGCTGGCTGGGGCATGGGCATTGATCGAGTCGCCATGTTTCTCACGGAC
 TCCAACAACATCAAGGAAGTACTTCTGTTTCTGCCATGAAACCCGAAGACAAGAAGGAGAATGTAGCAA
 CCACTGATACACTGAAAGCACAAAGTTGGCAGTTCTGTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200311 protein sequence
 Red=Cloning site Green=Tags(s)

MAAVQAAEVKVDGSEPKLSKNEKRRRLKAEKKVAEKEAKQKELSEKQLSQATAAATNHTDNGVGPPEES
 VDPNQYYKIRSQAHLKLVNGEDPYPHKFHVDISLTDIFIQKYSHLQPGDHLTDITLKVAGRIHAKRASGG
 KLIFYDLRGEGVKLQVMANSRNYKSEEEFIHINNKLRRGDIIGVQGNPGKTKKGELSIIPIYEITLLSPCL
 HMLPHLHFLGDKETRYRQRYLDLILNDFVRQKFIIRSKIITYIRSFLDELGFLEIETPMNIIIPGGAVA
 KPFITYHNELDMNLYMRIAPELYHMLVVGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHDL
 MEITEKMSVGMVKHITGSYKVTYHPDPEGQAYDVDFTPPFRRINMVVEELEKALGMKLPETNLFETEETR
 KILDDICVAKAVECPPRRTARLLDKLVGEFLEVTCINPTFICDHPQIMSPLAKWHRSEGLTERFELFV
 MKKEICNAYTELNDPMRQRLFEEQAKAKAAGDDEAMFIDENFCTALEYGLPPTAGWGMGIDRVAMFLTD
 SNNIKEVLLFPAMKPEDKKENVATDTLESTTVGTSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Species:

Human

Serotype:	AAV-2
ACCN:	NM_005548
ORF Size:	1791 bp
Buffer:	PBS with 0.001% Pluronic F5040
Stability:	AAV is stable for 1 year when stored at -80°C (long-term storage) or 2-3 weeks when stored at -20°C (short-term storage). Thaw the vial of AAV on ice prior to use and keep it on ice during the experiment. Thawed AAV can be stored at 4°C for 1-2 weeks. Whenever possible, particles should be aliquoted into single use portions to avoid repeated freeze/thaw cycles. Please aliquot at least 10ul per tube and use low protein binding tubes to avoid loss of virus.
RefSeq:	<u>NM_005548.1</u>
RefSeq Size:	2017 bp
RefSeq ORF:	1794 bp
Locus ID:	3735
UniProt ID:	<u>Q15046</u>
Cytogenetics:	16q23.1
MW:	68 kDa