

Product datasheet for **RR207016**

Dars (NM_053799) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dars (NM_053799) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dars
Synonyms:	aspRS; DRS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR207016 representing NM_053799
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAGCGCCAACGCCAGCCGTAAGGGTCAGGAGAAGCCGCGGAGATCGTGGACCGCGGAAGATT
 ATGCTAAAGAGAGATATGGGGTATCCTCTATGATACAATCACAAGAAAAACCAGATAGAGTGTGGTTCC
 AGTTAAGGATCTGACAGTACAAAAGCTGATGAGGTTGTTTGGGTCCGTGCAAGAGTTTCATACAAGCAGA
 GCAAAAGGAAGCAGTGTCTTCTAGTCCTGAGGCAGCAGCAGTTAATGTCCAGGCTCTTGTGGCGGTGG
 GAGACCATGCAAGCAAGCAGATGGTGAATTTGCTGCCAACATCAACAAAGAAAGTATTATTGACGTAGA
 AGGCATTGTGAGAAAAGTAAATCAGAAAATTGGAAGCTGTACACAGCAGGATGTTGAGTTGCACGTCCAG
 AAGATTTATGTGATTAGCTTGGCTGAGCCTCGCCTGCCCTGCAGCTGGATGATGCCATTCGGCCTGAGG
 TGAAGGAGAAGAGGACGGGAGAGCTACCGTTAACCAAGATACAAGATTAGACAACAGAATCATTGACCT
 TAGGACATCAACCAGCCAGGCCATCTCCATCTCCAGTCCGGCATTGGCCATCTCTCCGAGAAACGTTA
 ATTAACAAAGGTTTTGTGAAATCCAGACTCCTAAAATAATTCAGCTGCCAGCGAAGGAGGAGCCAATG
 TTTTACTGTGTCTTATTTAAAAGTAATGCCTACCTCGCTCAGTCTCCACAGCTATATAAGCAGATGTG
 CATTTGTGCTGATTTTGAGAAGGTTTTCTGCATTGGGCCAGTTTTCAGAGCTGAAGACTCCAATACCCAT
 AGACATCTGACTGAATTTGTTGGTTTGGATATTGAAATGGCCTTAATTATCATTACCATGAAGTTGTAG
 AAGAGATCGCTGACACTTTGGTGCAAAATTTCAAAGGACTTCAAGAAAGGTTTCAGACTGAAATCCAAAC
 TGTAACAAACAGTTCCCATGTGAGCCGTTCAAATTTTGGAGCCAACCTTAAGACTGGAGTATTGTGAG
 GCTTTGGCTATGCTTAGAGAAGCCGGAGTTGAAATGGACGATGAGGAAGATCTGAGTACACCAAAATGAAA
 AACTGTTGGTCTGTTTGGTGAAGGAAAAGTATGATACAGACTTTTATGTTCTTGATAAATATCCATTGCC
 TGTAAGACCTTTCTATACCATGCCTGACCAAGAATCCTAAGCAGTCCAACCTTACGATATGTTTCATG
 AGAGGAGAAGAAATATTGCTGGAGCACAAAGAATACATGATCCTCAGTTGCTTACAGAGAGAGCTTTAC
 ACCATGGAATTGATTTGGAGAAAATAAAAGCTTACATTGATTCCCTCCGCTTTGGAGCCCCTCCTCACGC
 TGGTGGCGGCATTGGGTTGGAAGAGTGACGATGCTGTTTTAGGATTGCATAATGTACGTCAGACCTCA
 ATGTTCCCTCGTACCCGAAGCGACTCACGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207016 representing NM_053799
 Red=Cloning site Green=Tags(s)

MPSANASRKQEKPREIVDAAEDYAKERYGVSSMIQSQEKPDRVLRVKDLTVQKADEVVWRARVHTSR
 AKGKQCFVLVRQQQFNVQALVAVGDHASKQMVKFAANINKESIIDVEGIVRKVNQKIGSCTQQDVELHVQ
 KIYVISLAEPRLPLQLDDAIRPEVEGEEDGRATVNQDTRLNRIIDLRTSTSQAIFHLQSGICHFLFRET
 INKGFVEIQTPKII SAASEGGANVFTVSYFKSNAYLAQSPQLYKQMCICADFEKVFCIGPVFRAEDSNTH
 RHLTEFVGLDIEMAFNYHYHEVVEEIAADTLVQIFKGLQERFQTEIQTVNKQFPCEPFKLEPTLRLEYCE
 ALAMLREAGVEMDDEEDLSTPNEKLLGRLVKEYDIDFYVLDKYPLAVRPFYTMPDPRNPQKSNQSYDMFM
 RGEEILSGAQRIHDPQLLTERALHHGIDLEKIKAYIDFRFGAPPHAGGGIGLERVTMLFLGLHNVRQTS
 MFPRDPKRLTP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_053799

ORF Size: 1503 bp

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).

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.

RefSeq: [NM_053799.3](#), [NP_446251.1](#)

RefSeq Size: 1506 bp

RefSeq ORF: 1506 bp

Locus ID: 116483

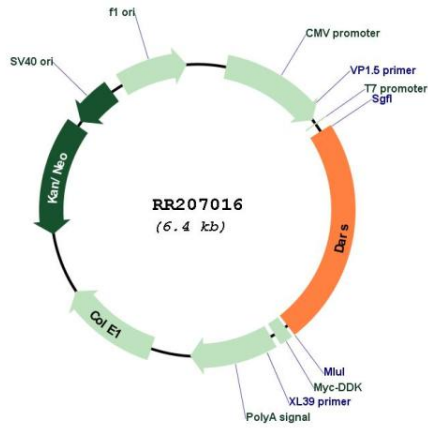
UniProt ID: [P15178](#)

Cytogenetics: 13q13

MW: 57.1 kDa

Gene Summary: the catalytic domain of rat liver aspartyl-tRNA synthetase [RGD, Feb 2006]

Product images:



Circular map for RR207016