

Product datasheet for **RG207360**

DARS2 (NM_018122) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DARS2 (NM_018122) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DARS2
Synonyms:	ASPRS; LBSL; MT-ASPRS; mtAspRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207360 representing NM_018122
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTA**CTTCCCTTCTTGGTTAAGTCAGCTGTACAGGGTTTATCCAGACCCATCAGAAGGACCACCAAC**
 CGATCTGGGGTTCTCTACAGAAGTCTGTTG**CAGAGTTCACAGAGGAGAATCCAGAATTCAGTAGCTT**
 TGTGTCCG**GACCAACACATGTGGAGAGTTGCGTTCGCTCACTTAGGCCAAGAAGTCACCTTGTGTGGA**
 TGGATT**CAGTACCGAAGGCAAAACACATTTCTTGGTCTAAGAGATTTTCGATGGGCTTGTCAAGTTATCA**
 TTCCCCAGGATGAGT**CGGCAGCCTCTGTGAAGAAGATTTATGTGAAGCCCTGTGGAATCTGTGGTGCA**
 AGTGTCTGGTACAGT**CATTTCCCGTCTGCAGGACAAGAGAATCCAAAAATGCCAACAGGTGAGATTGAA**
 ATCAAAGT**AAAAACAGCTGAGCTTCTGAATGCCTGCAAGAAGCTGCCCTTTGAAATTAAGAACTTCGTGA**
 AGAAAACAGAGGCT**CTTCGGTTGCAGTATCGCTACTTAGACTTGGCTAGTTTCCAATGCAGTATAACCT**
 GCGACTGAGG**TCCAGATGGTCATGAAAATGCGGGAATATCTCTGTAATCTGCATGGGTTTGTGGATATA**
 GAAACCC**CCACATTTGTTAAGAGACCCAGGGGGTGCCAAAGAGTTTTAGTACCATCCAGGGAACCTG**
 GAAAGTTT**ATTCTCCCTCAGAGTCCCAACAGTTTAAAGCACTTCTGATGGTTGGCGGTTTAGACAG**
 ATATTT**TCAGGTTGCCGATGTTATCGAGATGAAGTTCAAGACCAGACAGACAGCCTGAGTTTACTCAG**
 ATTGACATAGAGATG**TCAATTTAGACCAGACTGGGATCCAGAGTTTAAATGAGGGTTTGTCCAGTATT**
 CCTGGCC**CAATGACAAAGATCCTGTGGTTGTTCTTTCTACTATGACTTTTGTGAGGTGCTGGCCAC**
 CTATGGA**ACTGATAAACCTGACACTCGCTTTGGAATGAAGATTATAGATACAGTGATGTGTTTAGAAAC**
 ACAGAGAT**TGGATTTCTCAAGATGCACCTAGTAAGCCCATGGAAGTTGAAAGCCATGTATCCCTG**
 AAGGAG**CAAAATACTTAAAAAGGAAAGACATTGAATCCATTAGAAAATTTGCAGCTGACCATTTAATCA**
 GGAAAT**CTTACCTGTATTCCCTTAACGCCAATAGAAAAGTGAATTCAGTTGCTAATTTATAATGGAG**
 TCACAA**AGACTGGAATTAATCAGACTAATGGAGACCCAAGAGGAAGATGTGGTCTACTAAGTCTGGAG**
 AGCACA**ATAAAGCATGCTCTTTGTTAGGAAAATTACGACTGGAATGTGCTGACCTTCTAGAAAACAGAGG**
 AGTGGT**GCTCCGTGACCCACTCTGTTCTTTCTTTGGGTGGTAGATTTCCACTCTTCTGCCCAAG**
 GAGGAAA**ATCCCAGAGAGCTGGAATCGGCCACCACCCATTTACTGCTCCCCACCCAGTGACATACATC**
 TCCTGT**ACTAGGCCAAAAAGGCCCGTAGCCAAACACTATGACTTGGTTTTAAATGGCAATGAAATAGG**
 AGGTGG**TCAATTCGAATTCACAAATGCAGAGCTGCAGCGTTATATCCTGGCAACCTTACTAAGGAGGAT**
 GTGAAA**ATGCTCTCCCATCTGCTCCAGGCTTTAGATTATGGGGCACCCCTCATGGAGGAATTGCCTTAG**
 GGTTAG**ACAGACTGATATGCCTTGTCACTGGATCTCCAAGCATCAGAGATGTCATAGCCTCCCAAAGTC**
 CTTCGG**GGACATGACCTCATGAGCAATACCCAGATTCTGTCCCTCTGAGGAAGTGAAGCCATCAT**
 ATCCG**AGTCTCCAAGCCAACAGACTCCAAGCAGAAAGAGCTCAT**

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207360 representing NM_018122
 Red=Cloning site Green=Tags(s)

MYFPSWLSQLYRGLSRPIRRTTQPIWGSLYRSLQSSQRRRIPEFSSFVVRTNTCGELRSSHLGQEVTLGG
 WIQYRRQNTFLVLRDFDGLVQVIIPQDESAAVKKILCEAPVESVQVSGTVISRPAGQENPKMPTGEIE
 IKVKTAELLNACKKLPFEIKNFVKKTEALRLQYRYLDLRSFQMQLRLRSQMVMKMREYLCNLHGFVDI
 ETPTLFRKTPGGAKEFLVPSREPGKFYSLPQSPQQFKQLLMVGGLDRYFQVARCVRDEGSRPDRQPEFTQ
 IDIEMSFVDQGTGIEGLLQYSWPNDKDPVVVFPPTMTFAEVLATYGTDPDRFGMKIIDISDVFRN
 TEIGFLQDALSKPHGTVKAICIPGAKYLRKRDIESIRNFAADHFNQEILPVFLNANRNWNSPVANFIME
 SQRLELIRLMETQEEDVLLTAGEHNKACSLGKLRLECADLLETGRGVLRDPTLFSFLVWVDFPLFLPK
 EENPRELESAHHPFTAPHPSDIHLLYTEPKKARSQHYDLVLNGNEIGGGSIRIHNAELQRYILATLLKED
 VKMLSHLLQALDYGAPPHGGIALGLDRLICLVGSPSIRDVIAFPKSFGRHDLMSNTPDSVPPEELKPYH
 IRVSKPTDSKAERAH

TRTRPLE – GFP Tag – V

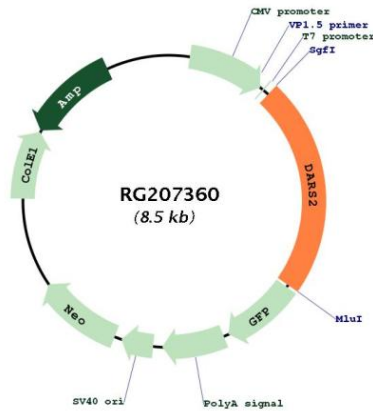
Cytogenetics: 1q25.1

Domains: GAD, tRNA-synt_2

Protein Pathways: Aminoacyl-tRNA biosynthesis

Gene Summary: The protein encoded by this gene belongs to the class-II aminoacyl-tRNA synthetase family. It is a mitochondrial enzyme that specifically aminoacylates aspartyl-tRNA. Mutations in this gene are associated with leukoencephalopathy with brainstem and spinal cord involvement and lactate elevation (LBSL). [provided by RefSeq, Nov 2009]

Product images:



Circular map for RG207360