

Product datasheet for **SC321548**

DARS1 (NM_001349) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DARS1 (NM_001349) Human Untagged Clone
Tag:	Tag Free
Symbol:	DARS1
Synonyms:	aspRS; DARS; HBSL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:	<p>>OriGene sequence for NM_001349.2</p> <pre> CGGAAGCCTGCGAGGGGAGGTGGTGTCCACTGCCAGTCCCGTGTCCCGATGCCAGCGC CAGCGCCAGCCGCAAGAGTCAGGAGAAGCCGCGGGAGATCATGGACGCGGCGGAAGATTA TGCTAAAGAGAGATATGGAATATCTTCAATGATACAATCACAAGAAAAACCAGATCGAGT TTTGGTTCGGGTTAGAGACTTGACAATACAAAAAGCTGATGAAGTTGTTTGGGTACGTGC AAGAGTTTCATACAAGCAGAGCTAAAGGGAAACAGTGCTTCTTAGTCTACGTGAGCAGCA GTTTAATGTCCAGGCTCTTGTGGCGGTGGGAGACCATGCAAGCAAGCAGATGGTTAAAT TGCTGCCAACATCAACAAAGAGAGCATTGTGGATGTAGAAGGTGTGTGAGAAAAAGTGA TCAGAAAATTGGAAGCTGTACACAGCAAGACGTTGAGTTACATGTTCAGAAGATTATGT GATCAGTTTGGCTGAACCCCGTCTGCCCTGCAGCTGGATGATGCTGTTCCGCTGAGGC AGAAGGAGAAGAGGAAGGAGAGCTACTGTTAACCAGGATACAAGATTAGACAACAGAGT CATTGATCTTAGGACATCAACTAGTCAGGCAGTCTCCGCTCCAGTCTGGCATCTGCCA TCTCTCCGAGAACTTTAATTAACAAAGGTTTTGTGAAATCCAACTCCTAAAATTAT TTCAGTCCAGTGAAGGAGGAGCCAATGTTTTACTGTGCATATTTAAAAAATATGC ATACCTGGCTCAGTCCCCACAGCTATATAAGCAAATGTGCATTTGTGCTGATTTTGAGAA GGTTTTCTCTATTGGACCAGTATTCAGAGCGGAAGACTCTAATACCCATAGACATCTAAC TGAGTTTGTGGTTGGACATTGAAATGGCTTTAATTACCATTACCACGAAGTTATGGA AGAAAATTGCTGACACCATGGTACAAATATTCAAAGGACTTCAAGAAAGGTTTCAGACTGA AATTCAAACAGTGAATAAACAGTCCCATGTGAGCCATTCAAATTTTGGAGCCAACCTCT AAGACTAGAATATTGTGAAGCATTGGCTATGCTTAGGGAAGCTGGAGTCGAAATGGGAGA TGAAGACGATCTGAGCACACCAATGAAAAGCTGTTGGGTCAATTTGGTAAAGGAAAAGTA TGATACAGATTTTATATTCTTGATAAAATCCATTGGCTGTAAGACCTTTCTATACCAT GCCTGACCCAAGAAATCCCAAACAGTCCAACTCTTACGATATGTTTCATGAGAGGAGAAGA AATATTGTCAGGAGCTCAAAGAATACATGATCCTCAACTGCTAACAGAGAGAGCTTTACA TCATGGAATTGATTTGGAGAAAATTAAGCTTACATTGATTCCTCCGCTTTGGAGCCCC TCCTCATGCTGGTGGAGGCATTGGATTGGAACGAGTTACTATGCTGTTTCTGGGATTGCA TAATGTTTCGTCAGACCTCCATGTTCCCTCGTGATCCCAAACGACTCACTCCTTAAATTCA CACTTTGCCACTTAACTCCAGTGTGGATGACAGAGCGAGACCCTGCCTCAAAAAAAAAA AAAAAAAAAAAAA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001349
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_001349.2 , NP_001340.2
RefSeq Size:	2322 bp
RefSeq ORF:	1506 bp
Locus ID:	1615
UniProt ID:	P14868
Cytogenetics:	2q21.3
Domains:	tRNA-synt_2, tRNA_anti
Protein Pathways:	Aminoacyl-tRNA biosynthesis
Gene Summary:	<p>This gene encodes a member of a multienzyme complex that functions in mediating the attachment of amino acids to their cognate tRNAs. The encoded protein ligates L-aspartate to tRNA(Asp). Mutations in this gene have been found in patients showing hypomyelination with brainstem and spinal cord involvement and leg spasticity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer 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>