

Product datasheet for **SC324514**

FARSLB (FARSB) (NM_005687) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FARSLB (FARSB) (NM_005687) Human Untagged Clone
Tag:	Tag Free
Symbol:	FARSLB
Synonyms:	FARSLB; FRSB; HSPC173; NEDBLLA; PheHB; PheRS; RILDBC; RILDBC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_005687.3
 GTTCGACACACCATGCCGACTGTCAGCGTGAAGCGTGATCTGCTCTTCCAAGCCCTGGGC
 CGCACCTACACTGACGAAGAATTTGATGAACTATGTTTTGAATTTGGTCTGGAGCTTGAT
 GAAATTACATCTGAGAAGGAAATAATAAGTAAAGAACAAGGTAATGTAAGGCAGCAGGA
 GCCTCTGATGTTGTTCTTTACAAAATTGACGTCCTGCCAATAGATATGATCTCCTGTGT
 CTGGAAGGATTGGTTCGAGGACTTCAGGTCTTCAAAGAAAGGATAAAGGCTCCAGTGTAT
 AAACGGTAATGCCTGATGGAAAAATCCAGAAATTGATTATCACAGAAGAGACAGCTAAG
 ATACGTCCTTTTGCGGTAGCAGCAGTTCTCCGTAATATAAAGTTTACTAAAGATCGATAT
 GACAGTTCATTGAACCTCAGGAGAAATTACATCAGAATATTTGCAGGAAAAGAGCACTG
 GTTGCCATTGGTACCCATGATTTGGACACTTTGTCGGGCCCATTTACTTATACTGCAAAG
 CGTCTTCAGATATCAAATTCAGCCTCTAAATAAGACCAAGGAGTATACAGCCTGTGAA
 CTGATGAACATATAACAAGACTGACAATCACCTGAAACATTATTTACATATCATTGAAAAC
 AAACCCCTGTATCCAGTTATCTATGATAGCAATGGTGTGCTCCTTTCAATGCCTCCCATC
 ATCAATGGGGATCATTCCAGAATAACAGTAAATACTAGAATAATTTTTATTGAATGCACG
 GGAAGTACTTTACTAAGGCAAAAATAGTTCTTGATATTATTGTCACCATGTTTCAGTGAA
 TATTGTGAGAATCAATTTACGGTCGAAGCTGCTGAAGTGGTTTTTCTAATGGAAAATCA
 CATACTTTCCAGAATTAGCTTACCGAAAAGGAGATGGTGAGAGCTGACCTAATTAACAAA
 AAAGTTGGAATCAGAGAACTCCAGAAAATCTTGCCAACTTCTGACCAGGATGTATTTA
 AAATCAGAAGTCATAGGTGATGGGAATCAGATTGAGATTGAAATCCCTCCAACCAGAGCT
 GACATTATCCATGCATGTGATATTGTAGAAGATGCAGCTATTGCTTATGGATATAACAAC
 ATTCAGATGACTCTCCGAAAACCTTACACCATAGCTAATCAATTTCTCTTAATAAGCTC
 ACTGAACCTCTCCGACATGACATGGCAGCCGCTGGCTTCACTGAAGCACTTACCTTTGCC
 CTGTGCTCCCAAGAAGATATTGCTGATAAACTAGGTGTGGATATCTCTGCAACAAAGGCA
 GTCACATAAAGTAATCCTAAAACAGCTGAATTTACAGGTGGCAGCAGCACTACCTTCTCT
 GGCTCTGAAGACCATAGCAGCAAATCGTAAGATGCCCTTCCACTGAACTGTTTGAA
 ATCTCTGACATTGTAATAAAGATTCTAATACAGATGTAGGTGCAAAAACTACAGACAT
 CTCTGTGCTGTTTATTACAACAAGAATCCTGGGTTTGAGATCATTGATGGGCTGTGGAC
 AGAATTATGCAGTTGCTCGATGTGCCTCCTGGTGAAGACAAGGGGGGATATGTGATCAA
 GCATCAGAAGGGCTGCTTTCTCCCGGGCGATGTGCAGAGATTTTCCAGGGGTCAA
 AGCGTCGGGAAGCTTGGGGTCTTCATCCTGACGTTATCACCAAATTTGAGCTGACCATG
 CCCTGCTCCTCCAGAAATCAATATTGGACCTTTTTGTGAAGATTGGTCTCTGTGGTG
 TGATTCTCTCCAGGTGCCCTTTCTCCTCCCTAGTGTCTTAAAGTCTCCTCCACAG
 GGAACATCTATTTGGGCTTTGATGTTTAAATAAAGTAGAAAGCACTGGCAAAAAAAAAA
 AAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_005687

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:

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_005687.3](#), [NP_005678.3](#)

RefSeq Size: 2233 bp

RefSeq ORF: 1770 bp

Locus ID: 10056

UniProt ID: [Q9NSD9](#)

Cytogenetics: 2q36.1

Domains: B3_4, B5

Protein Pathways: Aminoacyl-tRNA biosynthesis

Gene Summary: This gene encodes a highly conserved enzyme that belongs to the aminoacyl-tRNA synthetase class IIc subfamily. This enzyme comprises the regulatory beta subunits that form a tetramer with two catalytic alpha subunits. In the presence of ATP, this tetramer is responsible for attaching L-phenylalanine to the terminal adenosine of the appropriate tRNA. A pseudogene located on chromosome 10 has been identified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

Transcript Variant: This variant (1) represents the shorter transcript and encodes the functional protein. 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.