

Product datasheet for **SC116559**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC116559 sequence for NM_005687 edited (data generated by NextGen Sequencing)

```
ATGCCGACTGTCAGCGTGAAGCGTGATCTGCTCTTCCAAGCCCTGGGCCGCACCTACACT
GACGAAGAATTTGATGAACATGTTTTGAATTTGGTCTGGAGCTTGATGAAATTACATCT
GAGAAGGAAATAATAAGTAAAGAACAAGGTAATGTAAAGGCAGCAGGAGCCTCTGATGTT
GTTCTTTACAAAATTGACGTCCCTGCCAATAGATATGATCTCCTGTGTCTGGAAGGATTG
GTTTCGAGGACTTCAGGTCTTCAAAGAAAGGATAAAGGCTCCAGTGTATAAACGGGTAATG
CCTGATGGAAAAATCCAGAAATTGATTATCACAGAAGAGACAGCTAAGTACGTCCTTTT
GCGGTAGCAGCAGTTCTCCGTAATATAAAGTTTACTAAAGATCGATATGACAGCTTCATT
GAACCTCAGGAGAAATTACATCAGAATATTTGCAGGAAAAGAGCACTGGTTGCCATTGGT
ACCCATGATTTGGACACTTTGTCGGGCCCATTTACTTATACTGCAAAGCGTCCTTCAGAT
ATCAAATTCAAGCCTCTAAATAAGACCAAGGAGTATACAGCCTGTGAACGATGAACATA
TACAAGACTGACAATCACCTGAAACATTATTTACATATCATTGAAAACAAACCCCTGTAT
CCAGTTATCTATGATAGCAATGGTGTGTCCTTTCAATGCCTCCCATCATCAATGGGGAT
CATTCCAGAATAACAGTAAATACTAGAAATATTTTTATTGAATGCACGGGAACTGACTTT
ACTAAGGCAAAAATAGTTCTTGATATTATTGTCACCATGTTCAAGTGAATATTGTGAGAAT
CAATTTACGGTCGAAGCTGCTGAAGTGGTTTTTCTAATGGAAAAACACATACCTTTCCA
GAATTAGCTTACCAGAAAGGAGATGGTGAGAGCTGACCTAATTAACAAAAAGTTGGAATC
AGAGAACTCCAGAAAATCTTGCCAAACTTCTGACCAGGATGATTTAAAATCAGAAGTC
ATAGGTGATGGGAATCAGATTGAGATTGAAATCCCTCCAACCAGAGCTGACATTATCCAT
GCATGTGATATTGTAGAAGATGCAGCTATTGCTTATGGATATAACAACATTGAGATGACT
CTCCCGAAAACCTACACCATAGCTAATCAATTTCTCTTAATAAGCTCACTGAACCTCTC
CGACATGACATGGCAGCCGCTGGCTTCACTGAAGCACTTACCTTTGCCCTGTGCTCCCAA
GAAGATATTGCTGATAAACTAGGTGTGGATATCTCTGCAACAAAGGCAGTCCACATAAGT
AATCCTAAAACAGCTGAATTTGAGGTGGCACGCACTACCTTTCTTCTGCGCTCCTGAAG
ACCATAGCAGCAAATCGTAAGATGCCCTTCCACTGAAACTGTTTGAATCTCTGACATT
GTAATAAAAGATTCTAATACAGATGTAGGTGCAAAAAACTACAGACATCTCTGTGCTGTT
TATTACAACAAGAATCCTGGGTTTGAGATCATTGATGGGCTGCTGGACAGAATTATGCAG
TTGCTCGATGTGCTCCTGGTGAAGACAAGGGGGGATATGTGATCAAAGCATCAGAAGGG
CCTGCTTTCTCCCGGGCGATGTGCAGAGATCTTTGCCAGGGGTCAAAGCGTCGGGAAG
CTTGGGGTCTTCATCCTGACGTTATCACCAAATTTGAGCTGACCATGCCCTGCTCCTCC
CTAGAAATCAATATTGGACCCTTTTTGTGA
```

Clone variation with respect to NM_005687.3
1753 g=>a

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005687 unedited CAGCTATATTTGTNAATACGCACTCACTATAGGGCGGCCGCGCATTTCGGCACGAGGGGTT CGACACACCATGCCGACTGTCAGCGTGAAGCGTGATCTGCTCTTCCAAGCCCTGGGCCGC ACCTACACTGACGAAGAATTTGATGAACATGTTTTGAATTTGGTCTGGAGCTTGATGAA ATTACATCTGAGAAGGAAATAATAAGTAAAGAACAAGTAATGTAAGGCAGCAGGAGCC TCTGATGTTGTTCTTTACAAAATTGACGTCCCTGCCAATAGATATGATCTCCTGTGTCTG GAAGGATTGGTTCGAGGACTTCAGGTCTTCAAAGAAAGGATAAAGGCTCCAGTGTATAAA CGGTAATGCCTGATGGAAAAATCCAGAAATTGATTATCACAGAAGAGACAGCTAAGATA CGTCTTTTTCGGGTAGCAGCAGTTCTCCGTAATATAAAGTTTACTAAAGATCGATATGAC AGCTTCATTGAACTTCAGGAGAAATTACATCAGAATATTTGCAGGAAAAGAGCACTGGTT GCCATTGGTACCCATGATTTGGACACTTTGTCGGGCCATTTACTTATACTGCANAGCGT CCTTCAGATATCAAATCAAGCCTCTANATAAGACCAAAGAGTATACAGCCTGTGAACTG ATGAACATATAACAAGACTGACAATCACCTGAAACATTATTTACATATCATTGAAAAACAA CCCCTGTATCCAGTTATCTATGATAGCAATGTTGTCGTCCTTTTCATGCCTNCCATCATC AATGGGGATCATTCCCAGAATACAGTAATACTANAAATATTTTTATTTGATGCCCGGG CACCTGACTTTACTAAAGCAAAAAATAGTCTTGATATTATTGCCACCATGTTCAATGGAT ATTGTGAGAATCATTTACGGTCCCACCTGCTGAAGCGGCTTTTCTAAGGAAAAACCTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005687 unedited CGCTTTCTAAAGTCGAGTTTTTTCTTTTTTTTTTTGAAGTCTTCTACTTTATTAACA TCAAATCCAAAATAGATGTTCCCTGTGGAGGAGGACTTAAGGACACTAGGCGGAGAGAGA AAGGGACACCTGGGAAGAGAATCACACCACAGAGACCAATCTTCAAAAAAGGGTCCAAT ATTGATTTCTAGGAGGAGCATTTTTTTGGTCAGCTCAAATTTGGTGATAACGTCAGGATG AAGGACCCCAAGCTTCCCAGCCTTTGACCCCTGGCAAAGATCTCTGCACATCGCCCGGG GAAGAAAGCAGGCCCTTCTGATGCTTTGATCACATATCCCCCTTGTCTTACCAGGAGG CACATTGAGCAACTGCATAATTCTGTCCAGCAGCCATGAATGATCTCAAACCCAGGATT CTTGTTGTAATAAACAGCACAGAGATGTCTGTAGTTTTTTGCACCTACATCTGTATTAGA ATCTTTTATTACAATGTCAGAGATTCCAACAGCTTCAGTGAAGGGGCATCTTACGATT TGCTGCTATGGCCTTACGAGGCCAGGAAGAAAGGTAGTGCCTGCCACCTGAAATTCAGC TGCTTTAAGATTACTTATGCGGACCGCTTTGTTGCAGAGATATCCACACCTAATTTATC AGCAATATCCTCCTTGGGAGCACCAAGGCCAAACGCGAAGTGCTTCCATCCGAACCCACAC GCCTGCCCATGTACGCCCGCAGAAGCTTCAATTGACCCTTATTAAAGAGGAAAATTGATT ACCCTCATGGGGTAACGTTTTTCGGGAAAAGGCATTCTGAATGCTTGGTTATCCACTAACC ATAACTGGATCCTTTACAATTTACATGCCATGTTAATGCACGCTCTGCGTGAAGGGATC TAAATTCAATCCGATTCCCAACACCAAGAAGCTTGAATCTAAAACCTCCCGGCACAAATT TGCCAAAATTCCTGGAGTTTCTGGAATCAAACCTCTGAAAATAGGCAAGTTTCCCATCTC TTTCGGAAAC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_005687
Insert Size:	2040 bp
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).
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_005687.2](#), [NP_005678.2](#)

RefSeq Size: 3118 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.