

## Product datasheet for **RG204639**

### **FARSLB (FARSB) (NM\_005687) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FARSLB (FARSB) (NM_005687) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FARSLB
Synonyms:	FARSLB; FRSB; HSPC173; NEDBLLA; PheHB; PheRS; RILDBC; RILDBC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG204639 representing NM\_005687  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCACTGTACAGCGTGAAGCGTGATCTGCTCTTCCAAGCCCTGGGCCACCTACACTGACGAAGAAT  
 TTGATGAACTATGTTTTGAATTTGGTCTGGAGCTTGATGAAATTACATCTGAGAAGGAAATAATAAGTAA  
 AGAACAAGGTAATGTAAGGCAGCAGGAGCCTCTGATGTTGTTCTTTACAAAATTGACGTCCTGCCAAT  
 AGATATGATCTCCTGTGTCTGGAAGGATTGGTTCGAGGACTTCAGGTCTTCAAAGAAAGGATAAAGGCTC  
 CAGTGTATAAACGGGTAATGCCTGATGGAAAAATCCAGAAATTGATTATCACAGAAGAGACAGCTAAGAT  
 ACGTCTTTTGGCGTAGCAGCAGTTCTCCGTAATATAAAGTTTACTAAAGATCGATATGACAGCTTCATT  
 GAACCTCAGGAGAAATTACATCAGAATATTTGCAGGAAAAGAGCACTGGTTGCCATTGGTACCCATGATT  
 TGGACACTTTGTCGGGCCATTTACTTACTGCAAAGCGTCCTTCAGATATCAAATTCAGCCTCTAAA  
 TAAGACCAAGGAGTATACAGCCTGTGAAGTGAACATATACAAGACTGACAATCACCTGAAACATTAT  
 TTACATATCATTGAAAACAAACCCTGTATCCAGTTATCTATGATAGCAATGGTGTGCTCCTTTCAATGC  
 CTCCCATCATCAATGGGGATCATTCCAGAATAACAGTAAATACTAGAAATATTTTTATTGAATGCACGGG  
 AACTGACTTTACTAAGGCAAAAATAGTTCTTGATATTATTGTCACCATGTTCAAGTGAATATTGTGAGAAT  
 CAATTTACGGTCGAAGCTGCTGAAGTGGTTTTCTTAATGGAAAAACACATACCTTTCCAGAATTAGCTT  
 ACCGAAAGGAGATGGTGAGAGCTGACCTAATAACAAAAAGTTGGAATCAGAGAAAACCCAGAAAATCT  
 TGCCAACTTCTGACCAGGATGTATTTAAAATCAGAAGTCATAGGTGATGGGAATCAGATTGAGATTGAA  
 ATCCCTCAACAGAGCTGACATTATCCATGCATGTGATATTGTAGAAGATGCAGCTATTGCTTATGGAT  
 ATAACAACATTCAGATGACTCTCCGAAAACCTACACCATAGCTAATCAATTTCCCTTAAATAAGCTCAC  
 TGAACCTTCTCCGACATGACATGGCAGCCGCTGGCTTCACTGAAGCACTTACCTTTGCCCTGTGCTCCCAA  
 GAAGATATTGCTGATAAACTAGGTGTGGATATCTCTGCAACAAAGGCAGTCCACATAAGTAAATCCTAAAA  
 CAGCTGAATTTCAAGTGGCACGCACTACCTTCTTCTGGCCTCCTGAAGACCATAGCAGCAAATCGTAA  
 GATGCCCTTCCACTGAAACTGTTTGAATCTCTGACATTGTAATAAAAGATTCTAATACAGATGTAGGT  
 GCAAAAAACTACAGACATCTCTGTGCTGTTTATTACAACAAGAATCCTGGGTTTGAGATCATTATGGGC  
 TGCTGGACAGAATTATGCAGTTGCTCGATGTGCCTCCTGGTGAAGACAAGGGGGATATGTATCAAAGC  
 ATCAGAAGGGCCTGCTTCTTCCCGGGCGATGTGCAGAGATTTTCCAGGGGTCAAAGCGTCGGGAAG  
 CTTGGGGTCTTATCCTGACGTTATACCAAATTTGAGCTGACCATGCCCTGCTCCTCCTAGAAATCA  
 ATATTGGACCCTTTTTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG204639 representing NM\_005687  
 Red=Cloning site Green=Tags(s)

MPTVSVKRDLLFQALGRTYTDEEFDELCEFFGLELDEITSEKEIISKEQGNVKAAGASDVVLYKIDVPAN  
 RYDLLCLEGLVRGLQVFKERIKAPVYKRVMPDGKIQKLIITEETAKIRPFVAVAVLRNIKFTKDRYDSFI  
 ELQEKHLQNICRKRALVAIGTHDLDTLSPFTYAKRPSDIKFKPLNKTKEYTACELMNIYKTDNHLKH  
 LHIENKPLYPVIYDSNGVVLSPPIINGDHSRITVNRNIFIECTGDFTKAKIVLDIIVTMFSEYCN  
 QFTVEAAEVEVFPNGKSHTFPELAYRKEMVRADL INKKVGIREPENLAKLLTRMYLKSEVIGDGNQIEIE  
 IPPTRADIIHACDIVEDAAIAYGNNIQMTLPKTYTIANQFPLNKLTELLRHDMAAAGFTEALTFALCSQ  
 EDIADKLGVDISATKAVHISNPKTAEFQVARTLLPGLLKTIAANRKMPLPLKLFESDIVIKDSNTDVG  
 AKNYRHLCAVYVYKNGPFEIHLGLLDRIMQLLDVPPGEDKGGYVIKASEGPAFFPGRCAEIFARGQSVGK  
 LGVLHPDVITKFEITMPCSSLEINIGPFL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_005687

**ORF Size:** 1767 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\\_005687.3](#), [NP\\_005678.3](#)

**RefSeq Size:** 2233 bp

**RefSeq ORF:** 1770 bp

**Locus ID:** 10056

**UniProt ID:** [Q9NSD9](#)

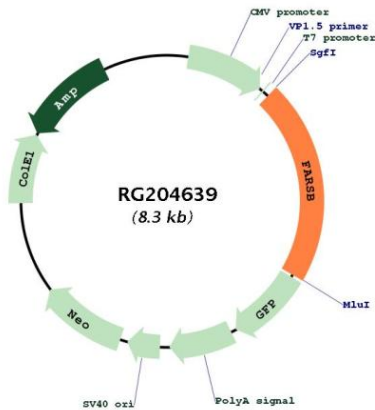
**Cytogenetics:** 2q36.1

**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]

**Product images:**



Circular map for RG204639