

Product datasheet for **RC200365**

FARSLA (FARSA) (NM_004461) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FARSLA (FARSA) (NM_004461) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FARSLA
Synonyms:	CML33; FARSL; FARSLA; FRSA; PheHA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200365 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCGGATGGTCAGGTGGCGAACTGCTGCTCCGGCGGCTGGAGGCGTCTGATGGCGGCCCTGGACAGCG
 CCGAGTTGGCGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGCGCCGTGAAGAGCCTTCAGGCGCT
 GGGCGAGGTCATCGAGGCTGAACCTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATT
 GCGCGGAGGGCAGCCATGAGGCCCGTGTGTTTGAAGCATTCCCCAGAGGGCCTGGCCAGAGCGAGC
 TTATGCGACTGCCAGTGGCAAAGTGGCTTCAGCAAGGCCATGTCCAACAAGTGATTGCGGTGGACAA
 GAGTGGCGCTGACGGGCCCCGGTGTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGCGGCTC
 CAGCTGGTCCGGGGGGACAGGCTGAGAAGCTGGGGGAGAAGGAGAGGAGCGAGCTGAGGAAGAGGAAGC
 TGTGGTGAAGTGAAGTGAAGACCTACTGGGTGAGCAAAGGCAGTGCCTTTAGTACCAGCATCTCCAA
 GCAAGAGACAGAGCTGAGCCAGAGATGATCTCCAGTGGCTCTTGGCGGACCGGCCCTCAAGCCCTAC
 AACTTCTTGGCCACGGTGTCTCCCCGACAGCGGCCACCTTACCCGCTGCTCAAGGTCCGCTCCCACT
 TCCGACAGATCTTCTGGAGATGGGGTTCACCGAGATGCCGACTGATAAATTCATTGAGAGCTCCTTCTG
 GAATTTGACGCCTCTTCCAGCCCCAGCAGCACCAGCCGTGACCAGCAGCAGACCTTCTTCTTCGA
 GATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGCTCAAGCGGACCCACTCTCAGGGCG
 GCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCCGGAAAAACCTACTGCGAACCA
 CACCACATCAGCCAGCGCCCGTGCCTCTACCGCTTGCCAGAGAAGCCCTTCACTCCGGTCAAGTAC
 TTCTCCATCGACCGCGTATTCCGGAATGAGACCTGGACGCCACGACCTGGCTGAGTCCACCAGATCG
 AGGGCGTGGTGGCGGATCATGGTCTCACCTTGGGCCACCTCATGGCGTTCTGCGGGAGTTCTTCACCA
 GCTGGGTATCACGCAACTCCGCTTCAAGCCAGCCTACAACCCATACACAGAGCCAGCATGGAGGTGTTT
 AGCTACCACCAAGGCCTGAAGAAGTGGGTGGAGGTGCGAACTCGGGGTCTTCCGTCCAGAGATGCTGC
 TGCCCATGGGGTTCGCGAGAACGTGTCGGTATTGCCTGGGGCTCTCCTGGAGCGCCCAACGATGAT
 CAAATATGGCATCAACAATATCCGGGAGCTGGTGGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGT
 CCCCTGTGCCCTGGATGCCGAGCCGAGGCCCTCCACACAGGAGGCTGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200365 protein sequence
 Red=Cloning site Green=Tags(s)

MADGQVAELLLRRLEASDGGLDSELAELGMEHQAVVGAVKSLQALGEVIEAELRSTKHWELTAEGEEI
 AREGSHEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAADGPRVFRVDSMEDEVQRRLL
 QLVRRGGQAEKLGEKERSELRRKLLAEVTLKTYWVSKGSFSTISKQETELSPEMISSGSWRDRPFKPY
 NFLAHGVLPSDGLHPLLVRSQFRQIFLEMGFTEMPTDNFIESSFWNFDALFQPQHPARDQHDFFLR
 DPAEALQLPMDYVQVRKTHSQGGYGSQGYKYNWKLDEARKNLLRTHHTTSASARALYRLAQKPFPTPKY
 FSIDRVFRNETLDATHLAEFHQIEGVVADHGLTLGHLMGVLREFFTKLGITQLRFKPAYNPYTEPSMEVF
 SYHQGLKKWVEVGNISGVFRPEMLLPMLPENVSIAWGLSLERPTMIKYGINNIRELVGHKVNLMVYDS
 PLCRLDAEPRPPPTQEA

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6381_e06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_004461

ORF Size: 1524 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004461.3](#)

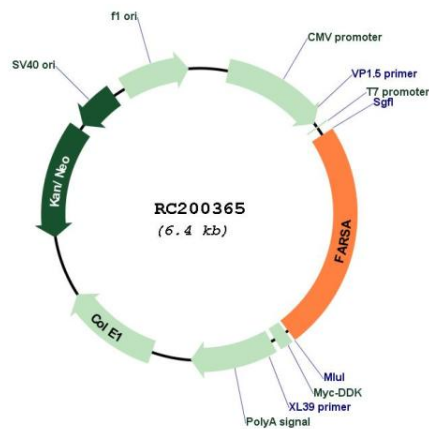
RefSeq Size: 1853 bp

RefSeq ORF: 1527 bp

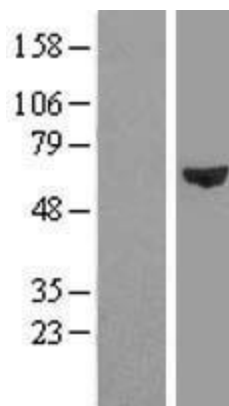
Locus ID: 2193

UniProt ID:	<u>Q9Y285</u>
Cytogenetics:	19p13.13
Domains:	tRNA-synt_2d
Protein Pathways:	Aminoacyl-tRNA biosynthesis
MW:	57.6 kDa
Gene Summary:	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. This gene encodes a product which is similar to the catalytic subunit of prokaryotic and <i>Saccharomyces cerevisiae</i> phenylalanyl-tRNA synthetases (PheRS). This gene product has been shown to be expressed in a tumor-selective and cell cycle stage- and differentiation-dependent manner, the first member of the tRNA synthetase gene family shown to exhibit this type of regulated expression [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC200365



Western blot validation of overexpression lysate (Cat# [LY417972]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200365 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).