

Product datasheet for **RG200365**

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:	TurboGFP
Symbol:	FARSLA
Synonyms:	CML33; FARSL; FARSLA; FRSA; PheHA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200365 representing NM_004461
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGATGGTCAGGTGGCGGAACTGCTGCTCCGGCGGCTGGAGGCGTCTGATGGCGGCCCTGGACAGCG
 CCGAGTTGGCGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGCGCGGTGAAGAGCCTTCAGGCGCT
 GGGCGAGGTCATCGAGGCTGAACTTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATT
 GCCCGGGAGGGCAGCCATGAGGCCCGTGTGTTTCGAAGCATTCCCCAGAGGGCCTGGCCAGAGCGAGC
 TTATGCGACTGCCAGTGGCAAAGTGGCTTCAGCAAGGCCATGTCCAACAAGTGGATTCCGGTGGACAA
 GAGTGGCGCTGACGGGCCCGGGTGTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGCGGCTC
 CAGCTGGTCCGGGGGGACAGGCTGAGAAGCTGGGGGAGAAGGAGAGGAGCGAGCTGAGGAAGAGGAAGC
 TGTTGGCTGAAGTGAAGTGAAGACCTACTGGGTGAGCAAAGGCAGTGCCTTTAGTACCAGCATCTCCAA
 GCAAGAGACAGAGCTGAGCCAGAGATGATCTCCAGTGGCTCTTGCGGGACCGGCCCTCAAGCCCTAC
 AACTTCTTGCCACGGTGTCTCCCGACAGCGCCACCTTCACCCGCTGCTCAAGTCCGCTCCCACT
 TCCGACAGATCTTCTGGAGATGGGGTTACCGAGATGCCGACTGATAACTTCATTGAGAGCTCCTTCTG
 GAACCTTGACGCCCTCTCCAGCCCCAGCAGCACCAGCCGTGACCAGCAGCACACCTTCTTCTTCGA
 GATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGGTCAAGCGGACCCACTCTCAGGGCG
 GCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCCGGAAAAACCTACTGCGAACCCA
 CACCACATCAGCCAGCGCCCGTGCCTCTACCGCTTGCCAGAAGAAGCCCTTCACTCCGGTCAAGTAC
 TTCTCCATCGACCGCGTATTCCGGAATGAGACCCTGGACGCCACGCACCTGGCTGAGTCCACCAGATCG
 AGGGCGTGGTGGCGGATCATGGTCTCACCTTGGGCCACCTCATGGCGTCTGCGGGAGTCTTCCACCAA
 GCTGGGTATCACGCAACTCCGCTTCAAGCCAGCCTACAACCCATACACAGAGCCAGCATGGAGGTGTTT
 AGCTACCACCAAGGCCTGAAGAAGTGGGTGGAGGTCGAAACTCGGGGCTTCCGTCAGAGATGCTGC
 TGCCCATGGGCTTCCGAGAACGTGTCGGTATTGCCTGGGCTCTCCCTGGAGCGCCCAACGATGAT
 CAAATATGGCATCAACAATATCCGGGAGCTGGTGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGT
 CCCCTGTGCCCTGGATGCCGAGCCGAGGCCCTCCACACAGGAGGCTGCG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200365 representing NM_004461
 Red=Cloning site Green=Tags(s)

MADGQVAELLLRRLEASDGGLDSAELAELGMEHQAVVGAVKSLQALGEVIEAELRSTKHWELTAEGERI
 AREGSHEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAADGPRVFRVVDSEMEDEVQRR
 QLVRRGGQAEKLEKERSELRKRKLLAEVTLKTYWVSKGSFSTSIKQETELSPEMISSGSWRDRPFKPY
 NFLAHGVLPSDGLHPLLLKVRQFRQIFLEMFTMPDNTFIESSFWNFDALFQPQHPARDQHDTFFLR
 DPAAELQLPMDYVQRVVRKTHSQGGYGSQGYKNWKLDEARKNLLRTHHTSASARALYRLAQKPFPTPKY
 FSIDRVFRNETLDATHLAEFHQIEGVVADHGLTLGHLMGVLEFFTKLGITQLRFKPAYNPYTEPMEVF
 SYHQGLKKWVEVNGSGVFRPEMLLPMGLPENSVIAWGLSLERPTMIKYGINNIRELVGHKVNLMQVYDS
 PLCRLDAEPRPPPTQEA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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.

RefSeq: [NM_004461.3](#)

RefSeq Size: 1853 bp

RefSeq ORF: 1527 bp

Locus ID: 2193

UniProt ID: [Q9Y285](#)

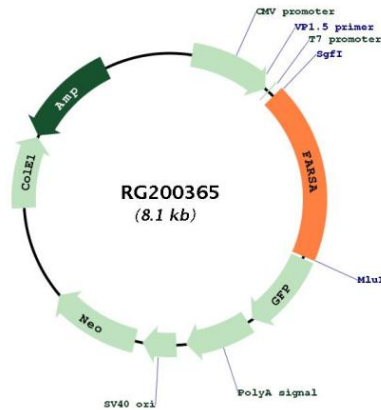
Cytogenetics: 19p13.13

Domains: tRNA-synt_2d

Protein Pathways: Aminoacyl-tRNA biosynthesis

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 *Saccharomyces cerevisiae* 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 RG200365