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Product datasheet for SC336795

Folylpolyglutamate synthase (FPGS) (NM_001288803) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Folylpolyglutamate synthase (FPGS) (NM_001288803) Human Untagged Clone
Tag:	Tag Free
Symbol:	FPGS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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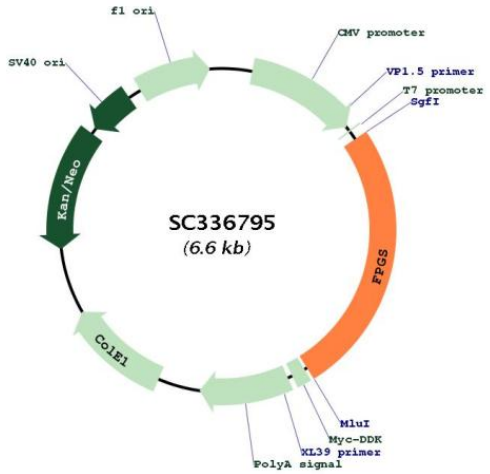
Fully Sequenced ORF:

>SC336795 representing NM_001288803.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCGCGGGCGCGGAGCCACCTGCGCGCCGCTCTATTCCTGGCAGCGGCGTCTGCGCGCGGCATAACG
ACCCAGGTCGCGGCGCGGCGGGGCTTGAGCGCGTGGCCGGTGCCGCAGGAGCCGAGCATGGAGTACCAG
GATGCCGTGCGCATGCTCAATACCCTGCAGACCAATGCCGGCTACCTGGAGCAGGTGAAGCGCCAGCGG
GGTGACCCTCAGACACAGTTGGAAGCCATGGAACTGTACCTGGCACGGAGTGGGCTGCAGGTGGAGGAC
TTGGACCGGCTGAACATCATCCACGTCACTGGGACGAAGGGGAAGGGCTCCACCTGTGCCTTCACGGAA
TGTATCCTCCGAAGCTATGGCCTGAAGACGGGATTCTTTAGCTCTCCCCACCTGGTGCAGGTTCGGGAG
CGGATCCGCATCAATGGGCAGCCCATCAGTCCTGAGCTCTTCACCAAGTACTTCTGGCGCCTCTACCAC
CGGCTGGAGGAGACCAAGGTGGACCTGGCAGTGGTGGAGGTGGGCATTGGCGGGGCTTATGACTGCACC
AACATCATCAGGAAGCCTGTGGTGTGCGGAGTCTCCTCTCTTGGCATCGACCACACCAGCCTCCTGGGG
GATACGGTGGAGAAGATCGCATGGCAGAAAGGGGGCATCTTTAAGCAAGGTGTCCCTGCCTTCACTGTG
CTCCAACCTGAAGGTCCCCTGGCAGTGCTGAGGGACCGAGCCCAGCAGATCTCATGTCCTCTATACCTG
TGTCCGATGCTGGAGGCCCTCGAGGAAGGGGGGCCGCCGCTGACCCTGGGCCTGGAGGGGGAGCACCAG
CGGTCCAACGCCGCCTTGGCCTTGCAGCTGGCCCACTGCTGGCTGCAGCGGCAGGACCGCCATGGTGCT
GGGGAGCCAAAGGCATCCAGGCCAGGGCTCCTGTGGCAGCTGCCCCTGGCACCTGTGTTCCAGCCCACA
TCCCACATGCGGCTCGGGCTTCGGAACACGGAGTGGCCGGGCCGGACGCAGGTGCTGCGGCGCGGGCCC
CTCACCTGGTACCTGGACGGTGCGCACACCGCCAGCAGCGCGCAGGCCTGCGTGCGCTGGTTCCGCCAG
GCGCTGCAGGGCCGCGAGAGGCCGAGCGGTGGCCCCGAGGTTCGAGTCTTGCTCTTCAATGCTACCGGG
GACCGGGACCCGGCGGCCCTGCTGAAGCTGCTGCAGCCCTGCCAGTTTGACTATGCCGTCTTCTGCCCT
AACCTGACAGAGGTGTCATCCACAGGCAACGCAGACCAACAGAACTTCACAGTGACACTGGACCAGGTC
CTGCTCCGCTGCCTGGAACACCAGCAGCACTGGAACCACCTGGACGAAGAGCAGGCCAGCCCGGACCTC
TGGAGTGCCCCCAGCCCAGAGCCCGGTGGGTCCGCATCCCTGCTTCTGGCGCCCCACCCACCCCACACC
TGCAGTGCCAGCTCCCTCGTCTTCAGCTGCATTTCACATGCCTTGCAATGGATCAGCCAAGGCCGAGAC
CCCATCTTCCAGCCACCTAGTCCCCCAAAGGGCCTCCTCACCCACCCTGTGGCTCACAGTGGGGCCAGC
ATACTCCGTGAGGCTGCTGCCATCCATGTGCTAGTCACTGGCAGCCTGCACCTGGTGGGTGGTGTCCTG
AAGCTGCTGGAGCCCGCACTGTCCCAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN:	NM_001288803
Insert Size:	1686 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_001288803.1
RefSeq Size:	2230 bp
RefSeq ORF:	1686 bp
Locus ID:	2356
UniProt ID:	Q05932
Cytogenetics:	9q34.11
Protein Pathways:	Folate biosynthesis, Metabolic pathways
MW:	61.6 kDa
Gene Summary:	This gene encodes the folylpolyglutamate synthetase enzyme. This enzyme has a central role in establishing and maintaining both cytosolic and mitochondrial folylpolyglutamate concentrations and, therefore, is essential for folate homeostasis and the survival of proliferating cells. This enzyme catalyzes the ATP-dependent addition of glutamate moieties to folate and folate derivatives. Alternative splicing results in transcript variants encoding different isoforms. [provided by RefSeq, Jan 2014] Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. This variant has two alternative translational start codons in the same reading frame which encode either a longer, signal-containing mitochondrial protein (isoform c) or a shorter, signal-less cytosolic protein.