

## Product datasheet for **RC209012**

### Folypolyglutamate synthase (FPGS) (NM\_004957) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Folypolyglutamate synthase (FPGS) (NM_004957) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Folypolyglutamate synthase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC209012 representing NM\_004957  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGTCGCGGGCGGGAGCCACCTGCGCGCCGCTCTATTCTGGCAGCGGCGTCTGCGCGCGGCGTAAACGA  
 CCCAGGTCGCGGGCGGGGGCTTGAGCGCTGGCCGGTCCGAGGAGCCGAGCATGGAGTACCAGGA  
 TGCCGTGCGCATGCTCAATACCCTGCAGACCAATGCCGGTACCTGGAGCAGGTGAAGCGCCAGCGGGT  
 GACCCTCAGACACAGTTGGAAGCCATGGAAGTGTACCTGGCAGGAGTGGGCTGCAGGTGGAGGACTTGG  
 ACCGGCTGAACATCATCCACGCTACTGGGACGAAGGGGAAGGGCTCCACCTGTGCCTTACGGAATGTAT  
 CCTCCGAAGCTATGGCCTGAAGACGGGATCTTTAGCTCTCCCCACCTGGTGCAGGTTCCGGAGCGGATC  
 CGCATCAATGGGAGCCCATCAGTCTGAGCTCTTACCAAGTACTTCTGGCGCCTTACCACCGGCTGG  
 AGGAGACCAAGGATGGCAGCTGTGTCTCCATGCCCCCTACTTCCGCTTCTGACTCATGGCCTTCCA  
 CGTCTTCTCCAAGAGAAGGTGGACCTGGCAGTGGTGGAGGTGGGCATTGGCGGGCTTATGACTGCACC  
 AACATCATCAGGAAGCCTGTGGTGTGGGAGTCTCCTCTCTTGGCATCGACCACACCAGCCTCTGGGGG  
 ATACGGTGGAGAAGATCGCATGGCAGAAAGGGGCATCTTAAGCAAGGTGTCCCTGCCTTCACTGTGCT  
 CCAACCTGAAGGTCCCCTGGCAGTGTGAGGGACCGAGCCAGCAGATCTCATGTCCTCTATACCTGTGT  
 CCGATGCTGGAGGCCCTCGAGGAAGGGGGCCGCGCTGACCCTGGGCCTGGAGGGGAGACCAGCGGT  
 CCAACGCCGCTTGGCCTTGAGCTGGCCACTGCTGGTGCAGCGGCAGGACCGCCATGGTGTGGGGA  
 GCCAAAGGCATCCAGGCCAGGGCTCCTGTGGCAGTGGCCCTGGCACCTGTGTTCCAGCCACATCCCAC  
 ATGCGGCTCGGGCTTGGAAACACGGAGTGGCCGGCCGAGCAGGTGCTGCGCGCGGGCCCTCACCT  
 GGTACCTGGACGGTGGCACACCGCCAGCAGCGCAGGCTGCGTGGCTGGTCCGCCAGGCGTGCAG  
 GGGCCGAGAGGCCGAGCGGTGGCCCGAGGTTTCGAGTCTTCTCAATGCTACCGGGGACCGGGAC  
 CCGCGCGCCTGCTGAAGCTGCTGCAGCCTGCCAGTTTGACTATGCCGTCTTCTGCCCTAACCTGACAG  
 AGGTGTATCCACAGGCAACGCAGACCAACAGAACTTACAGTGACTGGACCAGGTCCTGCTCCGCTG  
 CCTGGAACACCAGCAGCACTGGAACCCTGGACGAAGAGCAGGCCAGCCCGGACCTTGGAGTGTCCCC  
 AGCCCAGAGCCCGGTGGTCCGCATCCCTGCTTGGCGCCCCACCCACCCACACTGCAGTGCAGCT  
 CCCTCGTCTTCACTGCAATTCACATGCCTTGAATGGATCAGCAAGGCCGAGACCCCATCTTCCAGCC  
 ACCTAGTCCCCAAAGGGCTCCTCACCCACCTGTGGCTCACAGTGGGGCCAGCATACTCCGTGAGGCT  
 GCTGCCATCCATGTGCTAGTCACTGGCAGCCTGCACCTGGTGGTGGTGTCTGAAGCTGCTGGAGCCCG  
 CACTGTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC209012 representing NM\_004957  
 Red=Cloning site Green=Tags(s)

MSRARSHLRAALFLAAASARGVTTQVAARRGLSAWPVPQEPSMEYQDAVRLNLTQTNAGYLEQVKRQRG  
 DPQTQLEAMELYLARSGLQVEDLRLNIHVTGKKGSTCAFTCEILRSYGLKTGFFSSPHLVQVRERI  
 RINGQPISEPLFTKYFWRLYHRLEETKDGSCVSMPPYFRFLTMAFHVFLQEKVDLAVVEVGIGGAYDCT  
 NIIRKPVVCGVSSLGIDHTSLLGDTVEKIAWQKGGIFKQGVPAFTVLQPEGPLAVLRDRAQQISCPYL  
 CPMLEALEEGPPLTLGLEGEHQRSNAALALQLAHCWLQRQDRHGAGEPKASRPGLLWQLPLAPVFQPTSH  
 MRLGLRNTEWPGRTOVLRGRLTWYLDGAHTASSAQACVRFWRQALQGRERPSGGPEVRVLLFNATGDRD  
 PAALLKLLQPCQFDYAVFCPNL TEVSSTGNADQNFVTLDQVLLRCLQEHQHWHLDEEQASPDLSVP  
 SPEPGGSASLLAPHPHTCSASSL VFSCTISHALQWISQGRDPIFQPPSPPKGLLTHPVAHSGASILREA  
 AAIHVLVTGSLHLVGGVLLKLEPALSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI



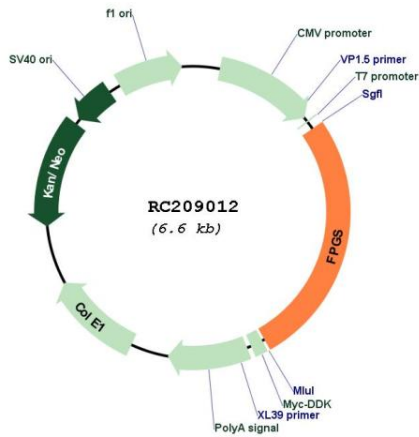
**Domains:** Mur\_ligase\_C

**Protein Pathways:** Folate biosynthesis, Metabolic pathways

**MW:** 64.62 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]

**Product images:**



Circular map for RC209012