

Product datasheet for **MR208684**

Fpgs (BC005484) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fpgs (BC005484) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fpgs
Synonyms:	AA408187
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208684 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTATCAGGATGCTGTGCGCAGCTCAACACCCTGCAAACCAATGCCAGCTACCTGGAGCAGGTAA
 AGCGCCAACGGAGTGACCCCGAGCGCAGCTGGAGGCTATGGAGATGTACCTGGCACGGAGTGGACTGCA
 GGTGGAGGACTTGAACCGGCTAAACATTATTCATGTCAGTGGGACCAAAGGGAAGGGCTCCACCTGTGCC
 TTCACCGAACGGATCCTGCGGAATTACGGCCTGAAGACCGGCTTCTTTAGCTCTCCTCACATGGTGCAGG
 TGCGGGAGCGGATTCGAATCAACGGGAAACCAATCAGCCCGAGCTTTCACCAAGCACTTCTGGTGCCT
 CTATAACCAGCTGGAGGAGTTCAAGGACGACAGCCATGTCTCCATGCCCTTACTTCCGCTTCTCACA
 CTCATGGCCTTCCATGTCTTCTCAAGAGAAGGTGGACCTGGCAGTGGTGGAGGTGGGCATTGGCGGGG
 CTTTTGACTGCACCAACATCATCAGAAAGCCAGTGGTGTGTGGAGTCTCCTCTCTTGGCATTGACCAC
 CAGTCTACTAGGAGATACAGTGGAGAAAATAGCATGGCAGAAAGGGGCATCTTTAAGCCTGGTGTCCCT
 GCCTTCACTGTGGTGCAGCCAGAAGTCCCTGGCTGTGCTGAGGGATCGAGCCAGCAGATTGGATGCC
 CGTTGTACCTGTGTCGCCATTGGAAGCCCTGGAGGAGTTGGACTGCCATTGAGCCTGGGTCTGGAGGG
 AGCACACCAGCGGTCTAATGCTGCCTTGGCCTTGACGCTGGCCACTGTTGGCTGGAGCGGCAGGACCAC
 CAAGACATCCAGGAGCTGAAGGTATCCAGGCCAAGCATACGGTGGCAGCTGCCCTGGCACCTGTGTTCC
 GCCCTACCCCTCACATGAGGCGTGGGCTTCGGGACACAGTGTGGCCTGGCCGGACACAGATACTCCAGCG
 GGGACCCCTTACCTGGTACCTGGATGGCGCCCATACCACAGCAGTGTGCAGGCTGTGTGCACTGGTAC
 CGCCAGTCAATGGAGCGCAGCAAACGCACCGATGGAGGGTCCGAAGTACACATCTTGCTCTTCAACTCTA
 CTGGTGACAGGGACTCTGCTGCCCTGCTGAAGCTGCTGCAGCCCTGCCAGTTTGACTACGCTGTCTTCTG
 CCCAACGTGACAGAGGTTTCATCCATAGGAAATGCAGACCAGCAGAACTTCACTGTGACTCTGGACCAG
 GTGCTGCTCCGCTGCCTCCAACACCAGCAGCATTGGAACGGCCTGGCTGAGAAACAGGCTAGCTCCAACC
 TCTGGAGCAGCTGCGGCCAGACCCTGCTGGGCCAGGCTCCCTGCTGCTGGCCCCGACCCACCTCAGCC
 TACTAGGACGAGCTCCCTCGTTTTAGCTGCATCTCCACGCCTTGTGTGGATCAGCCAAGGCCGGGAT
 CCCATCTTTCAGCCCCAGAGCCTTCCAAGGAATCTTCTCAACCACCCACAGCCAACAGCGGGGCCAGCA
 TTCTCCGTGAGGCTGCTGCCATCCATGTACTGGTTACAGGAAGCCTGCACCTGGTGGCGGGGTTCTGAA
 ACTGCTGGATCCCTCTATGTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208684 protein sequence
 Red=Cloning site Green=Tags(s)

MEYQDAVRTLNLTQTNASYLEQVKRQRSDPQAQLEAMEMYLARSGLQVEDLNRLNIIHVTGKKGSTCA
 FTERILRNYGLKTGFFSSPHMVQVRERIRINGKPI SPELFTKHFWCLYNQLEEFKDDSHVSMPSYFRFLT
 LMAFHVFLQEKVDLAVVEVGIGGAFDCTNIIRKPVVCGVSSLGIDHTSLLGDTVEKIAWQKGGIFKPGVP
 AFTVVQPEGPLAVLRDRAQQIGCPLYLCPPEALEEVGLPLSLGLEGAHQRSNAALALQLAHCWLERQDH
 QDIQELKVSRRPSIRWQLPLAPVFRPTPHMRRGLRDTVWPGRQTILQRGPLTWYLDGAHTTSSVQACVHWY
 RQSLERSKRTDGGSEVHILLFNSTGDRDSAALLKLLQPCQFDYAVFCPNVTEVSSIGNADQQNFTVTLDQ
 VLLRCLQHQQHWGLAEQASSNLWSSCGPDPAGPGLLLAPHPPQPTRTSSLVFSICISHALLWISQGRD
 PIFQPQSLPRNLLNHPTANS GASILREAAAIHVLVTGSLHLVGGVLKLLDPSMSQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

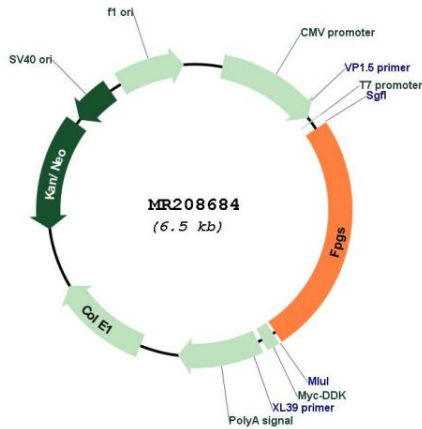
Restriction Sites:

Sgfl-MluI

MW: 60.6 kDa

Gene Summary: Catalyzes conversion of folates to polyglutamate derivatives allowing concentration of folate compounds in the cell and the intracellular retention of these cofactors, which are important substrates for most of the folate-dependent enzymes that are involved in one-carbon transfer reactions involved in purine, pyrimidine and amino acid synthesis. Dihydrofolate, tetrahydrofolate, 5,10-methylenetetrahydrofolate, 10-formyltetrahydrofolate and 5-formyltetrahydrofolate are the best substrates. Folic acid and 5-methyltetrahydrofolate can also act as substrates.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208684