

## Product datasheet for **MC200888**

### Fpgs (BC005484) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fpgs (BC005484) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fpgs
Synonyms:	AA408187
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC005484  
 GGC GCG GAG CCG ACT GT GCT CG ACT CT GT CC CT GGC AG CT GT TT CT GCG CG T GGT GCA AC GAC GCG GAG GGC  
 GCG GCG GCG GCG GGG GAT GAG CCG TGG CC AGC GCC AC AGG AGC CGG CAT GG AGT AT CAG GAT GT GT GC  
 GC ACG CT CA AC CC CT GCA AAC CA AT GCC AG CT AC CT GG AG CAG GT AA AGC GCC AAC GG AGT GAC CCCC A  
 GG CG ACG CT GG AGG CT AT GG AG AT GT AC CT GGC AC GG AG TGG ACT GC ACG TGG AGG ACT TGA ACC GG CT A  
 AAC ATT AT T CAT GT CACT GGG ACC AA AGG GA AGG GCT CC AC CT GT GC CT T CAC CG AAC GG AT CCT GCG GA  
 ATT ACG GCT GA AG ACC GG CT TTT AG CT CT CC T CAC AT GGT GC ACG TGG GAG CCG GAT TCG AAT CAA  
 CGG GAA ACCA AT CAG CCC GAG CT TTT CAC CA AG CACT TCT GGT GC CT CT ATA ACC AG CT GG AGG AG TTC  
 AAG GAC GAC AG CC AT GT CT CC AT GCC CT TTA CT TCC GCT TCT CAC ACT CAT GG CCT TCC AT GT CT TCC  
 TCCA AGA GA AG GT GG AC CT GGC AG TGG TGG AG GT GGC ATT GGC GGG GCT TTT GACT GC ACCA AC AT CAT  
 CAG AA AG CC AG TGG TGT GG AG CT CT CT CT TGG CATT GACC ACC AG TCT ACT AGG AG AT AC AG T  
 GAG AAA TAG CAT GGC AG AA AGG GGC AT CTTT AAG CCT GGT GT CC CT GC CT TCA CT GT GGT GC AG CC AG  
 AAG TCC CT GG CT GT GT GAG GAT CG AG CCC AG CAG ATT GG AT GCC CG TT GT AC CT GT GT CCG CC ATT  
 GGA AG CC CT GG AG GAG TT GG ACT GCC ATT GAG CT GGG TCT GG AGG GAG CAC ACC AG CG GT CTA AT GT  
 GC TT GG CT TGC AG CT GG CCC ACT GT TGG CT GG AG CCG CAG GACC ACCA AG AC AT CC AGG AG CT GA AG G  
 TAT CC AG GCCA AG CAT AC GGT GG CAG CT GCC CC TGG CAC CT GT GT TCC GC CT ACC CCT CAC AT GAG GCG  
 TGG GCT TCG GG AC AC AG TGT GG CT GG CCG GAC AC AG AT ACT CC AG CCG GG ACC CCTT AC CT GGT AC CT G  
 GAT GGC GCC AT ACC ACC AG CAG TGT GC AG GC CT GT GT GCA CT GGT ACC GCC AG TCA TT GG AG CG CAG CA  
 AAC GC ACC GAT GG AGG TCC GA AG TAC AC AT CT TGT CT TCA ACT TACT GGT GAC AG GACT CT GT GC  
 CCT GT GA AG CT GCT GC AG CC CT GCC AG TTT GACT AC GT GT CT TCT GCC CA AC GT GAC AG AG GTT CA  
 TCC AT AG GAA AT GC AG ACC AG CAG AACT TACT GT GACT CT GG ACC AG GT GCT GC TCC GCT GC CT CCA AC  
 ACC AG CAG CATT GGA AC GC CT GG CT GAG AA AC AG GCT AG CT CCA ACT CT GG AG CAG CT GCG GCC CAG A  
 CC CT GT GG CC AG GCT CC CT GCT GT GG CCCC GAC CC AC CT CAG CT ACT AGG AC GAG CT CC CT CG TT  
 TTC AG TGC AT CT CCC AG CCT TGT GT GG AT CAG CCA AG GCG GG AT CCA TCT TTT CAG CCC CAG AG CC  
 TTC AAG GA AT CT TCT CA ACC ACC CAC AG CCA AC AG CGG GGC CAG CATT CT CCG T GAG GCT GCT GCC AT  
 CC AT GACT GGT TAC AG GA AG CT GC AC CT GGT GGG CGG GT TCT GAA ACT GCT GG AT CC CT CT AT GT CC  
 CAG TAG CCA AG GAC CAC CT AC AT CG GT TGC CT TTT CAC AG ACT CT TATA CT AG TGC CT TGT GAT TTT  
 TG CT CT CAG AT TTTT CCG ACT GG CCC AG GT CTT GGG CT TTT GG TAG AG TGT AG GG AT GGG AG GGT C  
 TCT GT AC CT CG GC CT CT CCT CT CT GGC AG AG AC AG CAG GT GCT TCC AG AG TCCC ACC AT CG TAG C  
 AG GCT TTT CAG CT GG CCC AT CT CC CT GCT GC CT CAG GCT CAG GT CC AG CT TACT GT TGC AG CT GC CT GA  
 GC AG CT GG AT CCT GC CT GAG GT TAG ACC AG AG CACT CT CT CCT CCC AT GT TTT CT GG CAAA AG AG  
 AG GGC CT TGC CT GGC AT TTT GGG ACT GT GT TGT GGA ACT AATT GA AG TTTT AA ACC TTTT AT TTTT  
 TAT TTTT GT AA AT AA AT GAC AAA ACT TTTT AAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** BC005484

**Insert Size:** 1638 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:** [BC005484](#), [AAH05484](#)

**RefSeq Size:** 2215 bp

**RefSeq ORF:** 1638 bp

**Locus ID:** 14287

**Cytogenetics:** 2 22.09 cM

**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]