

Product datasheet for MR204547

Ggh (NM_010281) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ggh (NM_010281) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ggh
Synonyms:	gamma-GH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204547 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAACCTGGGCTACCTGCTGTGCTTGTGGGTTTGCTACTATGCGGGCTTCAAGTCCCGGGATGT
CCAGACCCTACAACCATGGCTCCGAGAGGCCCATCATCGGAGTAGTAATGCAAGAATGTTTTGGGAAAAT
GGCGAAGTTGGGAACTACTACATTGCTGCATCCTATGTGAAGTATATAGAGTCTGCAGGTGCACGAGTT
GTGCCATAAGGCCTGATCTTAGTGATGCAGAGTATGAAGAACTTTTAGATCTATTAATGGAGTCTCC
TTCTGGAGGAGGTGCTAACCTAACAGATTCAGGTTATCCCGAGTGGCCAAAATATTTTCAGCAAGGC
TCTAGAGAGCTTTGATAATGGAGGCCATTTTCTGTGTGGGAACATGCCTTGGATTTGAGGAGCTTCT
GTCTGGTTAGTGAGAGAACTTACTAACGAGTACAGACACTAAGTCAAAGAAAATGCCCCTTGAACCTCA
CTGAAGGTGCAAGGAAGAGCAGAATGTTCAAACATTTTCTACTGAGTATTGGATTCAATTAGCACTAGA
AAATCTGACCCGAAATTTTCAAAATGGAGCCTCTCTGTGAAGAAATTTACAGAAAATGAAAAGTTAAAG
AAGTTTTCAATATATTAACAACCAATACAGATGGCAAACCTGAGTTCATTTTCATCCATGGAAGGATTTA
AGTATCCAGTGTATGCTGTCCAGTGGCATCCTGAGAAAGCACCATTTGAGTGAAGAATCTGGCGGCAT
TTCTCATGCACCAATGCTGTGAAGACTTACTTACTTAGCAGAATTTTAGTTTCTGAAGCTCGGAAG
AACAGTACCACCTTTGAGAACGTGGTTAAGGAGACGGCATCCTTGATTTACAAGGTCTATCCCATTTATA
CTGAAAATATTTCTTCATTTAGCAAGCTTATATGTTTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204547 protein sequence
Red=Cloning site Green=Tags(s)

MANLGYLLCLLGLLLCGLSSPGMSRPYNHGSEPIIGVVMQECFGKMAKLGNYIIAASYVKYIESAGARV
 VPIRPDLSDAEYEELFRSINGVLLPGGGANLTDGYSRVAKIFFSKALESFDNGGHFPVWGTCCLGFEELS
 VLVSNGENLLTSTDTKSKKLPLNFTEGARKSRMFKHFPTELLDSLALENLTANFHKWSLSVKNFTENEKLL
 KFFNILTTNTDGTETFISSMEGFKYPVYAVQWHPEKAPFEWKNLGGISHAPNAVKTSFYLAFLVSEARK
 NSHHFENVVKETASLIYKYPIYTGNISSFQAYMFD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010281

ORF Size: 954 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_010281.2](#), [NP_034411.2](#)

RefSeq Size: 1340 bp

RefSeq ORF: 954 bp

Locus ID: 14590

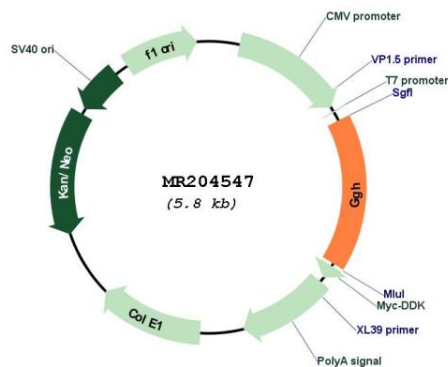
UniProt ID: [Q9Z0L8](#)

Cytogenetics: 4 A3

MW: 35.4 kDa

Gene Summary: Hydrolyzes the polyglutamate sidechains of pteroylpolyglutamates. Progressively removes gamma-glutamyl residues from pteroylpoly-gamma-glutamate to yield pteroyl-alpha-glutamate (folic acid) and free glutamate. May play an important role in the bioavailability of dietary pteroylpolyglutamates and in the metabolism of pteroylpolyglutamates and antifolates. Acts as endopeptidase. Lysosomal enzyme is activated by sulfhydryl compounds. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204547