

Product datasheet for MR229045

Gmnc (NM_001285918) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gmnc (NM_001285918) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gmnc
Synonyms:	Gemc1; Gm606; Gm1778
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229045 representing NM_001285918 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGAATCACGGACTGGGCAACAAGAGGCTATGGAAGATGCTGTGTTCCAGAATCGCCCTCTGAGTTAA
GTTTCCCTGTTCTGGACTCATGTTTCATGGGAAGAGGCTCAGCTCTCATCTCAGCTCTACAGAAATAAACA
GCTCCAGGATACTCTACTGCAGAAGGAGGAAGAACTTGTAGGCTACATGAAGAGAATAATCACCTCAGA
CAATACCTGAATTCTACTTTGGTTAAACGTCTGGAAGAGAAGGCCAAGAAGTTGCTGTCATCAGATGAGT
TTTCCAAAGTGTGGAAAACCTCAGAAAAGAGAAGAGGAAACCCAAAGAACACAGACACTCCCCTGCTGA
GATTCGCCAGTTCAAACCTGCCAAGAGAAACCTCTCCACAGAGTTTTCTAACTGTGAGGAACAACCTGGG
CCCCATGTGGACCCCTGGGTTCTCAAACCCCTGGGTTAAAAGACCTCAACACCATTGATGACACTCTAC
CAGCTAACTACAGTGCCACCACCTCTCATCCCAGAGCAGTTCAGTATTTCTCTCTGTTTGTACATGA
TGCAAAATGGCTATGCAAAATGTCCCAGAGATCTACACCTCGACTATGTAGGTCAGGGAACACATGGCTCA
CATACCACCTCCATCCACCAGGAAGATTGTCACAGTTTTCTAGGCTTTCTAATCCTCCAGTGAGGGTGC
AGACTCTTCCTTACCACACTGCAGATGTGTCACCCAACAAGACAGAGATGGCCTTTTCCACATCTTTGAG
CCCTCACTGTAATGTGAAAACCTCACTCCTCCACCAGGACAAGCCTTTGTGCGTCGAGATGAGGAAGGA
GGTTGGAAGTTTACCTGGTCCCTAAGCAGACC

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229045 representing NM_001285918
Red=Cloning site Green=Tags(s)

MRITDWATRGYGRCCVPESPELSFPVLDSCSWEEAQLSSQLYRNKQLQDTLLQKEEELARLHEENNHLR
 QYLNSTLVKRLKLEAKAKLLSSDEFKVFVKLRKEKRPKEHRHSPAIEPQFKTAKRNLSSTFVSNCEEQPG
 PHVDPWVLQTLGLKDLNTIDDTLPANYSATTSHPRAVPSISL FVHDANGYANVPRDLHLDYVVGQTHGS
 HTTSIHQEDCHSFPRLSNPPVVRVQTLPHYHTADVSPNKTEMAFSTLSLSPHCNVKTHSFHQQAFVRRDEEG
 GWKFTWVPKQT

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_001285918

ORF Size: 873 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_001285918.1](#), [NP_001272847.1](#)

RefSeq Size: 4179 bp

RefSeq ORF: 876 bp

Locus ID: 239789

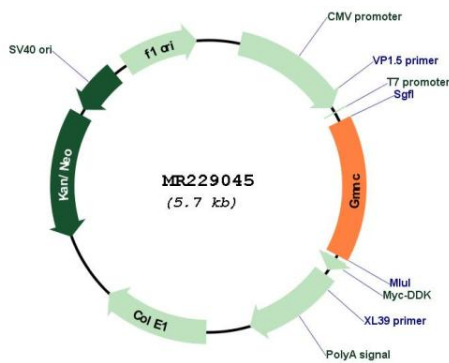
UniProt ID: [Q3URY2](#)

Cytogenetics: 16 B2

MW: 33.7 kDa

Gene Summary: Regulator of DNA replication. Promotes initiation of chromosomal DNA replication by mediating TOPBP1- and CDK2-dependent recruitment of CDC45L onto replication origins (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229045