

Product datasheet for **MR209366**

GnII (NM_008136) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	GnII
Synonyms:	Gna-rsI; Gnall
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence: >MR209366 representing NM_008136
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCGAGGAAGAAGCCCTTCAGCGTGAAGCAGAAGAAGAAGCAGCTGCAGGACAAGCGGGAGCGGAAGC
 GAGGGCTCCAAGATGGGCTGCGCTCCAGTTCCAACAGCCGACGCGTAGCCGGGAGCGCGGGAGGAGCA
 GACGGACACGTCGGATGGGGAATCCGTGACCCATCATATCCGACGGCTCAACCAGCAACCTTCCCAGGGC
 CTGGGGCCAGAGGCTACGACCCCAACCGATACCGGCTGCATTTTGAACGGGACAGCCGGGAGGAGGTGG
 AGAGGAGAAAGAGAGCGGCCAGAGAGCAAGTGTTCAGCCGGTCAGTGTGAAGTGTAGAGTTGGATAT
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 AAGGAACAGCTAATGAGCCAGGAGGAGCGGAGCTTCCAGGAATACCTTGGGAAGATACACGGGCATACA
 CTTAGAGAACTCAGTACTTTGAGCACAATCTGGAGACATGGAGGCAGCTGTGGCGGTGTAGAGAT
 GTCTGACATCGTCTGCTATTACTGACATCCGACATCCGGTTGTGAACCTCCACCAGCACTTTACGAG
 TATGTAAGTGGAGAGCTTGGGCTGGCCCTGGTGTGGTCTTGAACAAGGTGGACCTGGCCCCGCGGCTC
 TCGTGGTTGCCTGGAAGCATTATTTTACCAGTGTACCCCGAGCTCCACATTGTCTTGTTCACCTCTTT
 CCCTCGGGACACGCGCACTCCACAGGAGCCTGGTGGTGTCTTGAAGAAGATCGGAGACGGGGAAAGGA
 TGGACTCGGGCACTGGGACAGAGCAGTTGCTGAGAGCCTGTGAAGCTATCACTGTGGGAAAGTGGACT
 TGAGCAGCTGGCGGAGAGAAGATTGCTAGGGACGTGGCTGGAGCCTCCTGGGGTAACGTCTCCGGTGAAGA
 AGAGGAGGAGGAAGACGGGCCAGCAGTACTGGTAGAGCAGCTGACCGACTCAGCCATGGAGCCACAGGC
 CCCTCCAGGGAGCGCTACAAGGATGGGGTGGTACTATTGGCTGTATAGGTTTCCCAATGTGGGAAAGT
 CCTCTCTGATCAACGGGCTGGTGGGCGGAAGGTGGTGAAGTGTCTCAGAACGCCAGGCCACACCCGGTA
 TTTTCAGACCTACTTTCTGACCCCTCTGTGAAGCTCTGTGACTGCCCGGCCTTATCTTCCCTCGCTG
 CTGCCAGGAGCTGCAGGTTCTGGCTGGAATCTACCCATTGCCAGATCCAGGAGCCCTACACTTCTG
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 TTCGGCTGAGCACCCTGGTGTGCTGGGACATCTGTGAAGCTTGGGACAGAAACGTGGTTATAAACG
 GCCAAGGCAGCTCGAAATGACGTGTACAGAGCGGCCAATAGCCTACTTCCCTGGCAGTGGATGGCCGCC
 TCAGCCTATGTTTCTACCTCTGGTTACAGCGAACAGAGAGGCACCTGGGAGTCTACCCAGAGACTGC
 AGAGCTGGTGTGTCGAGGGCAGGGTGGGCGGCAGGTGATGAGGAGGAGGAAGAGGAGGAGAACTG
 AGCAGCTCCTGTGAGGAGGAAGGAGAGGAGGACCGGATGCAGATGAAGAGGAGAGGAGATGAGGACA
 CCCCACCTCAGATCCTGGGTCTGCCTAACAGCCGAAACCGTATGCCCTGCTCGGGAGGATGAGTG
 C

ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >MR209366 representing NM_008136
 Red=Cloning site Green=Tags(s)

MPRKPFVSVKQKKQLQDKRERKRGLQDGLRSSNSRSGSRERREEQTDSDGESVTHHIRRLNQPSQG
 LGPRGYDPNRYRLHFERDSREEVERRKRAAREQVLQPVSAEVLDIRVYQPGSVLDFPRPPWSYEMS
 KEQLMSQEERSFQEYLGKIHGAYTSEKLSYFEHNLETWRQLWRVLEMSDIVLLITDIRHPVVFPPALYE
 YVTGELGLALVLNLKVDLAPPALVVAWKHYFHQCYQLHIVLFTSFPRDTRTPQEPGGVLKKNRRRGK
 WTRALGPEQLLRACEAITVGKVDLSSWREKIARDVAGASWGNVSGEEEEEDGPAVLVEQLTDSAMEPTG
 PSRERYKDGVTIGICGFNPVKGSSSLINGLVGRKVVSVSRTPGHTRYFYQTYFLTPSVKLCDCPGLIFPSL
 LPRQLQVLAGIYPIAQIQEYPTSVGYLASRIPVQALLHLRHPAEDPSAEHPWCAWDICEAWAEKRGYK
 AKAARNDEVYRAANSLRLAVDGRSLSCFYPPGYSEQRGTWESHPETAELVLSQGRVGPAGDEEEEEEEEL
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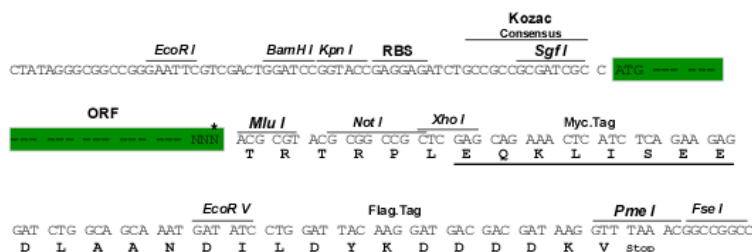
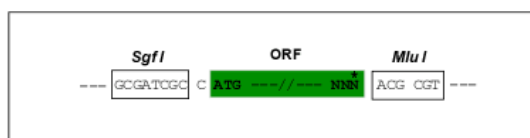
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9075_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 008136

ORF Size: 1821 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.

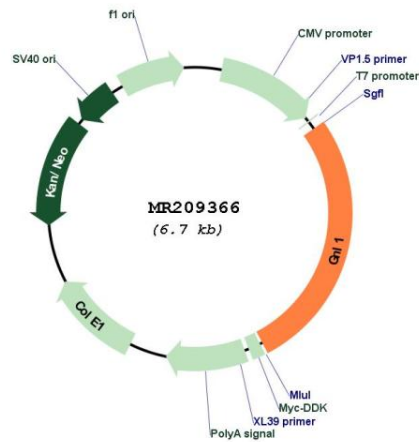
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22µm filter is required.

RefSeq: NM_008136.2, NP_032162.2

RefSeq Size: 2744 bp

RefSeq ORF:	1824 bp
Locus ID:	14670
UniProt ID:	P36916
Cytogenetics:	17 18.82 cM
MW:	68.8 kDa
Gene Summary:	Possible regulatory or functional link with the histocompatibility cluster.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209366