

Product datasheet for **MR226953**

Nuggc (NM_001195674) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nuggc (NM_001195674) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nuggc
Synonyms:	Gm600; SLIP-GC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR226953 representing NM_001195674
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATTGGACTCTATGAAATCCAAGGAGGAGCTCGGAGTAGCACCTCTTGGGACCGGCTATTCCAGTT
 CATTCCAAGGCGTTTCCCTGCTGACTGCGATCTGTTTAAAGAACCTGTTAGGAAAAGACGCAGGTTGCA
 TCGAGACCGCAATTCCAGGCCCTTCTCTGTCAGAGCAAAGTGCTTTAAGGAATATGAAAACTGGAG
 TGTCGGACCAGGAGGGTCTTGAGCAACTTATCAGAAATTGATTCAGTCTGTCTTCTGGATGACAGCA
 TTCCCAGCGGACTCAAGTATCTCATAAACCGGCTTCTTGCCTTGATTGAAAAATCCCCACTGGAGCCAGT
 CTATGTGGGGTCTTGGGAATCACTGGAGCTGGCAAGAGCTCTCTGATCAATGCCCTCATCCGGCAAGCA
 ATGTTTCTGCCTGTGTCTGGAGAAAGTGTTCACATCATGCATCGTACAAGTGAGCTCTGGCTGTGTG
 AGCAGTATGAGGCCAAAATTCACCTTCTGTCCGATCAGGAGTGAAGGCAGAAGTGAAGGACTTGACTAA
 GCTCCTGCACAGAGCAGAGCAGTCTGGGAAGAGGAGGCAGACTTGTGGGACAGGGATGATGCAACGGAA
 GAAGCTGCCCAGAAGCTACGGATGCTCTATGGCCATGGGGCAGAAAGGAGGCACTACGAGGAGTTGCTAA
 GGCTGAAGCCCAGAGGGAGGATCCCAACTCGAGAACCATCACTCTAAAGGCAGAGGAGGAGGAGAGCT
 ATCTGTCAAACCTGGACCCCTACATCAGGACCAGGAGGAGAGACTGGGATGGAGAATCAGCAGAGACACAA
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 GTGTTCCGTGATCTGGGTGATCAGCGACATCGAGCGAGTTTCTGGAGGAAAGACCCATGAAGACCTTCTG
 AGCGAGAGCATCAAAGCCTGCCAGCGTGGCTTCTGCAGGGACATCGCCCTGGTGGTCAACAAAACAGACA
 AACTCCACTTGCAGGAATATCTCAGGAAAGAAAGATGGGAAATCAAGCTATTCAGAGTCAGAGAGAAGC
 GTTCTGCAAAGAAATGAAATAATCAAACCTACAAGGAAGAGAATGCTCAAGGAGAAATGAAGAGAAAA
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 AGCGGACCATCCTGACTGAGGAAGAAAGTGAATCCCCAAGTTAAGAGAAATATATTAGGAAAAGGATCTT
 GGACAAGAAGAGGAGGCTGGTGACCAAGTACGTACAGAAGCCTTTGGCCTATTGCTTCTCACAGACACG
 TTAACACGGAGGAAAGCCTGCTGACTGAAGAAGTGAACACGGGTGGCCTGCGACAATTTGTAGAGGAGA
 AGATGGAGCTGTTGGAGAAGGCCATCGAGCAGTGTCTTGTCTGAATGGAACAGCCCTGCAGACAGGGGT
 CCAGGTGGCCATGACTTCTACCGCCGATCCTCGGGTCAATGCCTGGTGAAGGAGCAGAGGAAACCAAGT
 TTTACCAGACCCTGAAAGCAGTTTGCCTGAAAAATGGGGTCTATGCCTCCAGAAGTCTGGCCAGAATTG
 ACCTGAATGAAGCCCTGTCTCAGCCTATCTATGACCAGATTGACCCTGTATTTGGAGGCATTTTTAGGGA
 TGGGAAGCCCCTGCCCTGCTCTGATGCAGCAGATAGATGCTTTCAAGCATTCCCTGGAGGAGAGGATG
 GCAGAAGTTGGGGTTAGAAGTGGCTGGAACAAGATGGATACAAGAGAAGCTTCTGATCCAGGAGATAA
 GCGCCATCCTGGGAGGCCCTGGAGAGCCACATCCTCCGAGGAAAAGGAAGATCTATAAGTCTGTCACCAG
 CTCCATCCAAAACGACCTGAAGCCCTGCTATGAAGAGGCAGCTCAGATCACTGGCAAGAAAGCATGCGAG
 AGAATGAAGGATGTCATCAGGAGAGGGGTGGAGCGCAGGTGGCTGAGGGCTTGTGAGAGGGCTCAAG
 AGAGGATGTGGCACCAGTTTTCAGAGCTGAAGCATGGAATCACTGAGAAGGTCAAGGGCAGCATCACTAC
 CATGTTAACCTTGTGACCCCCAGGGAGTTGGACTCTGCAAGGAGCTTGCAGATGTCCGGAATGAACAG
 AAGGAAATGGAAAAACTCTACAGAAGCCTGAGGGAGGTTGCTGAGAACGCACAGCTGCGGAGGAGCATGC
 AAGATTTCTCCTGCGAATGTCCCCAGCAAAGCCGGCCCCCATGGAACAAAATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226953 representing NM_001195674
Red=Cloning site Green=Tags(s)

MDLDSMKSKEELGVAPLGTGYSSSFQGVSPADCDLFKEPVKRRRLHRDRQFQAFPSAEQSALKEYEKE
CRTRRVLNNTYQKLIQSVFLDDSIPLGLKYLINRLLALIEKSPLPVPYVGFGLGITGAGKSSLINALIRQA
MFLPVSGESVCTSCIVQVSSGCCCEQYEAKIHLLSDQEWKAEKDLTKLLHRAEQSGEEADLWDRDDATE
EAAQKLRLYGHGAERRHYEELLRLKPRGRIPNSRTITLKAEEAGELSVKLDPIYIRTRRRDWDGESAETQ
IWPLIKYVEVILPKSALIPGVVLDIPGTGDFNSKRDKMWKKTIDKCSVIWVISDIERVSGGKTHEDLL
SESIKACQRFCDIALVVTKTDLHLQEYLRERKMGNQAIQSQREAVLQRNEI IKLQRKRLKEKLRK
LPADSKVLEASDLVYTVSAHEYWQRTILTEEESIPLKREYIRKRILDKRRLVTKYVTEAFGLLLTDT
LNTEESLLTEELNTGGLRQFVEEKMELLEKAIEQCFARMEQPLQTVGVQVAMTSYRRILGSCLVRSRGNQG
FHQTLKAVCLKNGVYASRTLARIDLNEALSQPIYDQIDPVFGGIFRDGKPTAPALMQHIDAFKHSLEERM
AEVGVRSQGWKQDGYKRSFLIQEISAILGGLESHILRRKRKIYKSVTSSIQNDLKPCYEEAAQITGKKACE
RMKDVIIRRGVERQVAEGLFERAQMWHQFRQLKHGITEKVKGSITTMLTAAPOVGLCKELADVRNEQ
KEMEKL YRSLREVAENAQLRRSMQDFLLRMSPSKAGPHGTKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9099_b06.zip

Restriction Sites: SgfI-MluI

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_001195674.2](#), [NP_001182603.2](#)

RefSeq Size: 2567 bp

RefSeq ORF: 2439 bp

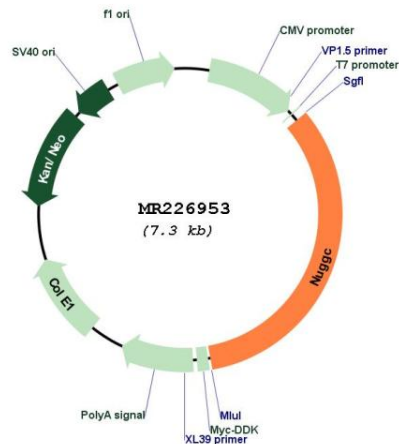
Locus ID: 100503545

Cytogenetics: 14 D1

MW: 92.9 kDa

Gene Summary: Nuclear GTPase found in germinal center B-cells, where it may inhibit function of the activation-induced cytidine deaminase AICDA (By similarity). Reduces somatic hypermutation in B-cells which may enhance genome stability (PubMed:22833677).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226953