

Product datasheet for **RC213017**

C8orf80 (NUGGC) (NM_001010906) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C8orf80 (NUGGC) (NM_001010906) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C8orf80
Synonyms:	C8orf80; HMFN0672; SLIP-GC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC213017 representing NM_001010906
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCAGAAACGAAGGATGTTTTGGCCAGGAACCGCATCCAGTTGAAGATGATTTATATAAAGAACGAA
 CGAGAAAAAGAAAGAAATCAGATCGAGACCAGCGTTCCGAGCATTTCCCTCCATGGAGCAGAGTGTCT
 TAAGGAATATGAAAAATTGGAATCACGGACCAGAAGGGTTTTGAGCAACACTTATCAGAACTTATTCAG
 TCTGTCTTCTGGATGACAGCATCCCTAATGGAGTCAAGTATCTCATAAATAGGCTTCTTGCCTTGATTG
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 AATACATCAGGAAGAGCCTCTTGACAAGAAGAAGAGGACAGTGACCAAGTATGTGACTGAAGCCTTTGG
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 CATCACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213017 representing NM_001010906
 Red=Cloning site Green=Tags(s)

MAETKDVFGQEPHPVEDDLYKERTKRKRKSDRDQRFRAFPSMEQSALKEYEKLESRTTRVLSTNTYQKLIQ
 SVFLDDSIIPNGVKYLINRLLALIEKPTVDPIYIALFGSTGAGKSSLINAIQQAMFLPVSGESICTSCIV
 QVSSGCCVQYEAKIHLLSDQEWREELKNLTKLLHRTTEELSREEADAWNREAVEEATWKLQMIYNGAES
 KNYEELLRAKPKRKIPTSRVITLKAEAEELSIKLDPIYIRTQRRDWDGEAAEMRIWPLIKHVEVTLPKSD
 LIPEGVVLVDIPGTGDFNSKRDEMWWKTIDKCSVIWVISDIERVSGGQAHDLLNESIKACQRGFCRDVA
 LVVTKMDKLHLPEYLRERKAGNQAIQSQREAVLERNEMIKLQRTRILKEKLKRKLPAADFVLEASDLVYT
 VSAQEYWQALLTEEETIPKLREYIRKSLDDKKKRTVTKYVTEAFGLLLTDSFNSTQNLPNELHMSV
 LRRFAEEKVELLEKAIACQFACMEQPLQEGVRTARTSYRCILRACLVRSKGNQGFHQTAKVCLKNGIYA
 SRTLARIDLNEALTQPVYDQIDPVFGSIFRTGKPTGSALMPHIDAFKQSLQEKMTGIRSGWKYDSCCK
 NFLIQEISAILGGLEDHILRRKRIYESLTASVQSDLKLCYEEAAQITGKKACERMKDAIRRGVDRQVAE
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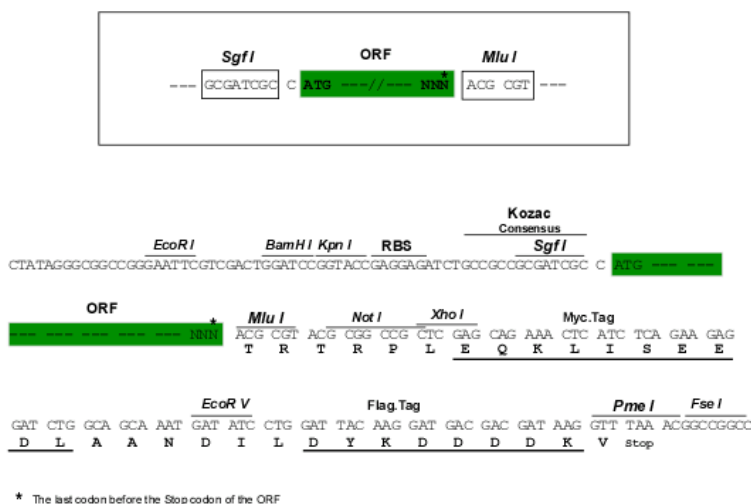
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8024_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM 001010906

ORF Size: 2388 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 0.22um filter is required.

RefSeq: [NM_001010906.2](#)

RefSeq Size: 3912 bp

RefSeq ORF: 2391 bp

Locus ID: 389643

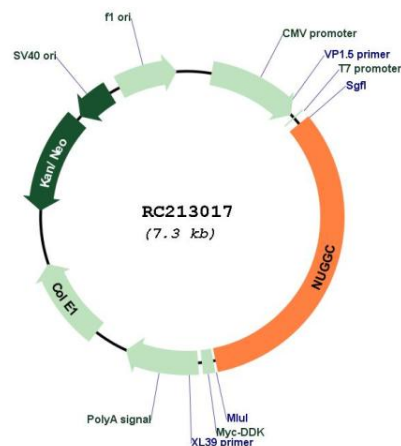
UniProt ID: [Q68CJ6](#)

Cytogenetics: 8p21.1

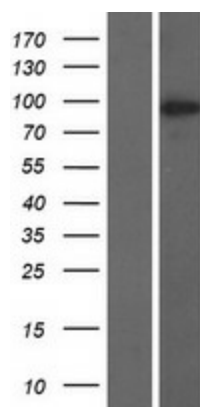
MW: 91 kDa

Gene Summary: Nuclear GTPase found in germinal center B-cells, where it may inhibit function of the activation-induced cytidine deaminase AICDA (PubMed:19734146). Reduces somatic hypermutation in B-cells which may enhance genome stability (By similarity). [UniProtKB/Swiss-Prot Function]

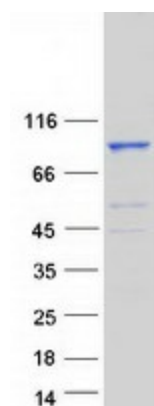
Product images:



Circular map for RC213017



Western blot validation of overexpression lysate (Cat# [LY423221]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213017 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NUGGC protein (Cat# [TP313017]). The protein was produced from HEK293T cells transfected with NUGGC cDNA clone (Cat# RC213017) using MegaTran 2.0 (Cat# [TT210002]).