

Product datasheet for **RG213017**

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:	TurboGFP
Symbol:	C8orf80
Synonyms:	C8orf80; HMFN0672; SLIP-GC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG213017 representing NM_001010906
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCAGAAACGAAGGATGTTTTGGCCAGGAACCGCATCCAGTTGAAGATGATTTATATAAAGAACGAA
 CGAGAAAAAGAAAGAAATCAGATCGAGACCAGCGTTCCGAGCATTTCCCTCCATGGAGCAGAGTGTCT
 TAAGGAATATGAAAAATTGGAATCACGGACCAGAAGGGTTTTGAGCAACACTTATCAGAACTTATTCAG
 TCTGTCTTCTGGATGACAGCATCCCTAATGGAGTCAAGTATCTCATAAATAGGCTTCTTGCCTTGATTG
 AAAAGCCGACAGTGGACCAATCTACATTGCATTATTTGGAAGCACTGGGGCTGGGAAGAGCTCCCTGAT
 CAATGCCATCATCCAGCAAGCAATGTTTCTACCAGTGTCTGGAGAAAGCATATGTAATCTCTGCATTGTA
 CAAGTGAGCTCTGGCTGTGTGTCAGTATGAGGCCAAAATCCACCTTCTGTCTGACCAGGAGTGGAGGG
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 GAACAGGGATGAGGCAGTGGAGGAAGCCACCTGGAAGCTACAAATGATTTATGGAATGGGCAGAGAGT
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 AGGCGGAAGAGGCAGAAGAGCTGTCCATCAAGCTGGACCCCTACATCCGCACACAGAGGAGAGATTGGGA
 TGGAGAGGCCGCTGAGATGCGCATCTGGCCCTTGATCAACATGTGGAAGTGACACTTCCCAATCCGAC
 CTGATCCCAAGAGGGTCTGTGCTGGTGGACATCCAGGCACAGGCGACTTCAACAGCAAGAGGGACGAGA
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 GCAAGCCACGAAGACCTTCTGAATGAGAGCATCAAAGCTGCCAGCGGGGCTTCTGTAGGGACGTGGCC
 CTGGTGGTCACCAAGATGGACAACTCCACTTGCCAGAATACCTAAGGGAAGAAAGGCAGGAAATCAAG
 CTATTCAGAGTCAGCGAGAGGCTGTTTTAGAAAGAAATGAAATGATAAACTACAAGGACTAGAATTCT
 CAAGGAAAAAAGTGAAGAGAAAACTGCCAGCTGACTTCAAGGTTCTGGAAGCCTCAGATCTGGTGTATACA
 GTCAGCGCCAGGAGTACTGGCAGCAGGCTCTCCTCACCAGGAGGAAACGGAAATCCCTAAGTTAAGAG
 AATACATCAGGAAGAGCCTCTTGACAAGAAGAAGAGGACAGTGACCAAGTATGTGACTGAAGCCTTTGG
 CCTGTTGCTCTCACAGATAGTTTCACTCCACGCAAAACCTGCCGAATGAACACTTGCACATGAGTGTC
 CTGCGGAGATTTGCGGAAGAGAAGGTTGAGCTGCTGGAGAAGGCCATCGCACAGTGCTTCGCCTGCATGG
 AGCAGCCTCTGCAAGAAGGGTCAAGACCGCCAGGACTTCTTACCCTGCATCCTCAGAGCATGCTTGGT
 GAGGAGTAAAGGAAACCAAGTTTTATCAGACCCTGAAAGCTGTTTGCCTGAAAAATGGCATCTATGCC
 TCCAGGACTCTGGCGAGAATTGATCTAAATGAAGCCCTCACTCAGCCCGTCTATGACCAGATCGACCCTG
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 GCAGTCCCTGCAGGAGAAAAATGACAGAAATTGGGATAAGAAGTGCTGGAAATATGATAGCTGCAAAAAA
 AATTTCTGATCCAGGAGATAAGTGCCATCCTCGGGGGCTGGAGGACCACATCCTCAGAAGGAAGAGGA
 GGATCTACGAGTCCCTCACTGCCTCTGTCCAGAGTGACCTGAAGCTCTGTTACGAAGAGGCAGCTCAGAT
 CACGGGCAAAAAAGCGTGTGAGCGGATGAAAGATGCCATCAGAAGAGGAGTGGACCGGCAGGTGGCTGAG
 GGCATGTTTGAAGGGCCAGGAAAGGATGCAGCACCAGTTTCAAGAGCTGAAGACTGGAATCGTGGAGA
 AGGTGAAGGGCAGCATCACCACTATGCTGGCCCTTGCTTCGTCCAGGGGGATGGCCTCTACAAGGAGCT
 TGCAGATGTCGGGAGTGAATACAAGGAGATGGAGAAGCTGCACAGAAGCCTGAGGGAGGTGCGGAGAAAT
 GCACGGCTGAGGAAGGGCATGCAAGAATTCCTCCTAAGGGCATCCCCAGCAAGGCTGGCCCCCGGGA
 CATCACTG

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213017 representing NM_001010906
 Red=Cloning site Green=Tags(s)

MAETKDVFGQEPHPVEDDLYKERTRRKRRKSDRDQRFRAFPSMEQSALKEYEKLESRTTRVLSTNTYQKLIQ
 SVFLDDSIIPNGVKYLINRLLALIEKPTVDPIYIALFGSTGAGKSSLINAIQQAMFLPVSGESICTSCIV
 QVSSGCCVQYEAKIHLLSDQEWREELKNLTKLLHRTTEELSREEADAWNREAVEEATWKLQMIYNGAES
 KNYEELLRAKPKRKIPTSRVITLKAEAEELSIKLDPIYRTQRRDWDGEAAEMRIWPLIKHVEVTLPKSD
 LIPEGVVLVDIPGTGDFNSKRDEMWWKTIDKCSVIWVISDIERVSGGQAHDLLNESIKACQRGFCRDVA
 LVVTKMDKLHLPEYLRERKAGNQAIQSQREAVLERNEMIKLQRTRILKEKLKRKLPADFKVLEASDLVYT
 VSAQEYWQALLTEEETIPKLREYIRKSLDDKKKRTVTKYVTEAFGLLLTDSFNSTQNLPNHLHMSV
 LRRFAEEKVELLEKAIACQFACMEQPLQEGVRTARTSYRCILRACLVRSKGNQGFHQTAKVCLKNGIYA
 SRTLARIDLNEALTQPVYDQIDPVFGSIFRTGKPTGSALMPHIDAFKQSLQEKMTIGIRSGWKYDSCCK
 NFLIQEISAILGGLEDHILRRKRIYESLTASVQSDLKLCYEEAAQITGKKACERMKDAIRRGVDRQVAE
 GMFERAQERMHQFQQLKTGIVEKVKSITTMLALASSQGDGLYKELADVGSEYKEMEKLHRSLEVAEN
 ARLRKGMQEFLLRASPSKAGPPGTSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

RefSeq: [NM_001010906.2](#)

RefSeq Size: 3912 bp

RefSeq ORF: 2391 bp

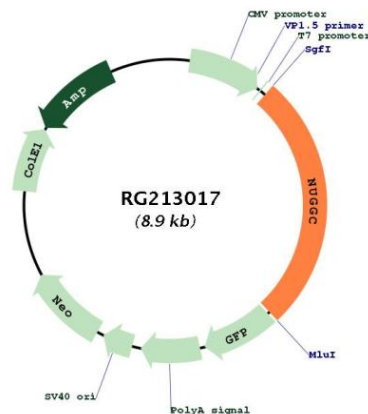
Locus ID: 389643

UniProt ID: [Q68CJ6](#)

Cytogenetics: 8p21.1

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 RG213017