

Product datasheet for RC202317

C17orf27 (RNF213) (NM_020954) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C17orf27 (RNF213) (NM_020954) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C17orf27
Synonyms:	ALO17; C17orf27; KIAA1618; MYMY2; MYSTR; NET57
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202317 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTGTCTTCGTGCCAGCATGTCTCCAAGGAGGAAACCCCAAGTCTGCAGCCAGTGGGAGAGA
GGCTGCCCTCTGCAGCCCCATAGCAGATTCTGAGAACAATAACTCCACAATGGCGTCGGCTCGGAGGG
TGAAATGGAGTGTGGCAGGAGCTGAAGGAGGAAGGGGGCCGTGCTTGTCCCGGGCTCAGACAGTTGG
CAAGAAAACCCGAGGAGCCCTGTTCAAAGCCTCCTGGACCGTCCAAGAAAGCAAAAAGAAGAAAAGGA
AGAAGAAAAGAAGGGGAACAAGTCCGCTCCTCAGAGCTGGCTTCTTGCCCTTTCTCCTGCCAGCCC
CTGTCACCTGACTTTGCTTTCAAACCATGGCCTCAGGACACAGCCCTGCCCCACAGCCAAGCCAGCAG
AGTGGCCCCACTGGCCAGCCGAGCCAGCCCCGGGCACAGCCACCAGCCACTGGAGGGTACCGGCTCT
CCGCGCCACCGAGGTTGGCGACAGCCCCCTGCAGGCCAGGCTTTGGGAGAGGCAGGAGTGGCCACAGG
AAGTGAGGCTCAGAGCAGCCGCAATCCAGGACCACACGGAAGGGGAGGACCAGGACGCTTCCATCCCC
TCTGGGGCAGAGGCTGTCCCAGGAGGGACCGTCCCCCACCTCTGCTGGTGAAGGCCATTCTAGGA
CTGAAGATGCTGCCAGGAGCTCCTGTTGCCTGAGTCAAAGGAGGCAGCTCTGAGCCGGGACAGAAGT
GCAGACCACCGAGCAACAGGCAGGGCCCTCAGCCTCTACGGCAGTTGATGCTGTAGCTGAGCCAGCCAAT
CTCCTTTCAAACACACTGCCAGGAAGCTGAGACCAAGACCAAGGACGAGACGGCTGCTGCTGAAGAAAA
AGTCGGTAAAAATGAACAAGGGGAGCCTGAAGACCTCAAGAAGCCAGAGGGGAAGAACAGAAGTGCAGCT
GCTGTGAAAAACGAGAAGGAGCAAAAAACCAGGAAGCAGATGTCCAGGAAGTGAAGGCAAGCACGCTGA
GCCCGGTGGAGGAGTACCGTGTCTTCCACGCCATCATCTCTTCAATTTCCATTCAATCCTGACCT
CCATAAAGTCTTCATCAGAGGAGGAGAAGAAATTTGGGAGTCAAATGGGACAGCAATATCTGTGAGCTG
CACTACACCAGAGACTTGGGTATGACCGGTTCTTGTGAAGGCATTGTCTGCATTTCAAAGAAGCACC
TAGATAAATACATTCTTACAAGTACGTCATTTATAATGGGAATCTTTGAGTATGAGTTCATTTACAA
GCACCAGCAGAAGAAGGGCGAGTACGTCAACCGCTGTCTGTTCAAAAATCTTCACTTCTGGGCTCAGGA



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GACTGGCATCAGTACTATGACATAGTTTATATGAAGCCTCATGGGAGACTCCAGAAAGTCATGAACCACA
 TCACAGACGGGCCGAGGAAGGACCTGGTGAAGGGGAAGCAGATTGCCGCTGCGCTCATGCTGGACAGCAC
 CTTTCAGCATCCTGCAGACCTGGGACACCATCAACCTGAACAGCTTCTTACCCAGTTCGAGCAGTTTTGC
 TTTGTCCTGCAACAGCCTATGATTTATGAAGGACAGGCACAGCTGTGGACCGATTTCAGTACAGGGAGA
 AAGAGGTGAAGAGATACCTGTGGCAACATCTGAAAAACAGCTGGTACCATTGCCGGACGGAAAAAGCAC
 GGACTTTTTGCCTGTGGACTGCCAGTGAAGGAGTAACTGAAAAACAGGCCTGATTGTCTTTTTGTAGTG
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 CACCAGATGAGTTTCACCGTGACCTAAGCCACATCCTTGGGATACCTCAGAGCTGGCGGCTGACCTGGT
 GAACCTGTGCCAAAGATGCATGGACACAAGGACGTACACCTGGCTGGCGGCCCTGCCTGTCTGCACTGC
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 GACTCTCCTTCTACCGTTCGCGGAACAATGCTAGATACGAGTTCCTACTTCAGTTTTATGAGAGAGAA
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 GTTATGTATATGAAAACTTCATTGAGCACCTGGGTCGTTTTCTGCTCATATCCTGGACTGTCTTTCAG
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 AAAAGGTGGCTCCGAGAAGTTTTACAAGAACATGCTCACATCTTCAGTGCCTCATTACATACGTC
 AGGAAATTGAGGTCTGGAGGCGGCTGGTGGAAATCCAATTCGCCGCGGAGCATGGCTGGAAGGAGTCGT
 GCTGGGAGACATGGAATGGAGGCTCACAAAGGAGAACCCCTCTCCAGATCACTGCCTACTGCAATAGT
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 GCTCAGCCTGCCAGGTGAACAATCTCTCCTCTGGGAAACGGATTCCGGCTCACAGCTGTGTTCTGCCAT
 GACCCAGCTAAGGCTATGAAGCACCCGCTGGGTCTCAGTCTCCGCTAACTCAGAGATTGGGAAGTGG
 GCACCCTCTCCCTCGCCAAGGGCAATGGCGCTGAAATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202317 protein sequence
 Red=Cloning site Green=Tags(s)

MECPSCQHVSKEETPKFCSQCGERLPPAAPIADSENNNSTMASASEGEMECGQELKEEGPCLFPGSDSW
 QENPEEPCSKASWTQESKKKRKKKKGNKSASSELASLPLSPASPCHLTLLSNPWPQDTALPHSQAQQ
 SGPTGQPSQPPGTATTPLEGDGLSAPTEVGDSPLQAQALGEAGVATGSEAQSSPQFDHTEGEDQDASIP
 SGGRGLSQEGTGPPTSAGEGHSRTEDAAQELLLPESKGSSEPGTELQTTEQQAGASASTAVDAVAEPAN
 AVKGAGKEMKEKTQRMKQPPATPPFKTHCQEAETKTKDETAEEKVGKNEQGEPEDLKKPEGKNRSAA
 AVKNEKEQKNQADVQEVKASTLSPGGGVTVFFHAIISLHFPFNPDLHKVFIIRGGEEFEGESKWDNSICEL
 HYTRDLGHDRVLEGIIVCISKKHLDKYIPYKYVIYNGESFEYEFYKHKQKKGEYVNRCLFIKSSLLGSG
 DWHQYYDIIYMKPHGRLQKVMNHITDGRPKDLVKGKQIAAALMLDSTFSILQTDWDTINLNSFFTQFEQFC
 FVLQQPMIYEGQAQLWTDLQYREKEVKRYLWQHLKHHVPLPDGKSTDFLPVDCPVRSKLLTGLIVLFVV
 EKIELLLEGLDNLCHLLTSDASSPDEFHRDLSHLIGIPQSWRLYLNLQRCRMDTRTYWL GALPVLHC
 CMELAPRHKDAWRQPEDTWAALEGLSFSFPFREQLDTSLLQFMREKQHLLSIDEPLFRSWFSLLPLSHL
 VMYMFENIEHLGRFPAHILDCLSGIYYRLPGLEQLNTQDVQDVQNVQNIEMLLRLLDTRDKIPEEAL
 SPSYLTVCLKLHEAICSSTKLLKFYELPALSAEIVCRMIRLLSLVDSAGQRDETGNNVSVQTVFQGLAAT
 KRWLREVFTKNMLTSSGASFTYVKEIEVWRRLEIQQFAEHGWKESLLGDMEWRLTKEEPLSQITAYCNS
 CWDTKGLEDSVAKTFEKCIIEAVSSACQVNNLSSWETDSGSQQLCSAMTQLRAMKHPLGLSSANSSEIGKW
 APSSLAKNGAEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6717_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020954

ORF Size: 3189 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_020954.1](#)

RefSeq Size: 5337 bp

RefSeq ORF: 3192 bp

Locus ID: 57674

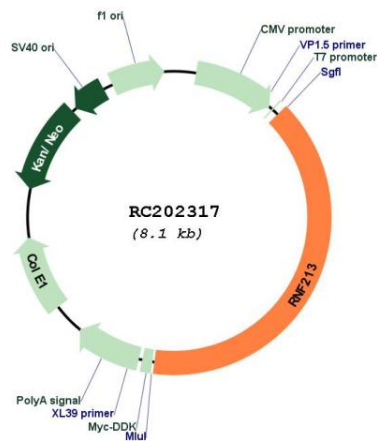
UniProt ID: [Q63HN8](#)

Cytogenetics: 17q25.3
Protein Families: Druggable Genome, Transcription Factors

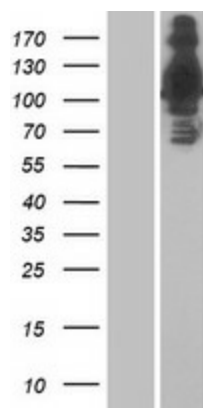
MW: 118.4 kDa

Gene Summary: This gene encodes a protein containing a C3HC4-type RING finger domain, which is a specialized type of Zn-finger that binds two atoms of zinc and is thought to be involved in mediating protein-protein interactions. The protein also contains an AAA domain, which is associated with ATPase activity. This gene is a susceptibility gene for Moyamoya disease, a vascular disorder of intracranial arteries. This gene is also a translocation partner in anaplastic large cell lymphoma and inflammatory myofibroblastic tumor cases, where a t(2;17)(p23;q25) translocation has been identified with the anaplastic lymphoma kinase (ALK) gene on chromosome 2, and a t(8;17)(q24;q25) translocation has been identified with the MYC gene on chromosome 8. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC202317



Western blot validation of overexpression lysate (Cat# [LY412178]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202317 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).