

Product datasheet for RC203089

RNF2 (NM_007212) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF2 (NM_007212) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RNF2
Synonyms:	BAP-1; BAP1; DING; HIPI3; RING1B; RING2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203089 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGTCCTCAGGCTGTGCAGACAAACGGAACCAACCATTAAAGCAAAACATGGGAACCTCAGTTTATATGAGT
TACAACGAACACCTCAGGAGGCAATAACAGATGGCTTAGAAATTTGGTTTCACCTCGAAGTCTACACAG
TGAATTAATGTGCCCAATTTGTTGGATATGTTGAAGAACCATTGACTACAAAGGAGTGTTCACATCGT
TTTTGTGCAGACTGCATCATCACAGCCCTTAGAAGTGGCAACAAAGAATGTCCTACCTGTCGAAAAAAC
TAGTTTCCAAAAGATCACTAAGGCCAGACCCAAACTTTGATGCACTCATCAGCAAAATTTATCCAAGTCG
TGATGAGTATGAAGCTCATCAAGAGAGAGTATTAGCCAGGATCAACAAGCACAATAATCAGCAAGCACTC
AGTCACAGCATTGAGGAAGGACTGAAGATACAGGCCATGAACAGACTGCAGCGAGGCAAGAAACAACAGA
TTGAAAATGGTAGTGGAGCAGAAGATAATGGTGACAGTTCACACTGCAGTAATGCATCCACACATAGCAA
TCAGGAAGCAGGCCCTAGTAACAAACGGACCAAAACATCTGATGATTCTGGGCTAGAGCTTGATAATAAC
AATGCAGCAATGGCAATTGATCCAGTAATGGATGGTGCTAGTGAATTTGAATTAGTATTCAGGCCTCATC
CCACACTTATGGAAAAAGATGACAGTGCACAGACGAGATACATAAAGACTTCTGGTAACGCCACTGTTGA
TCACTTATCCAAGTATCTGGCTGTGAGGTTAGCTTTAGAAGAACTTGAAGCAAAAGGTGAATCAAACCAG
ATGAACCTTGATACAGCCAGTGAGAAGCAGTATACCATTTATATAGCAACAGCCAGTGGCCAGTTCAGTG
TATTAATGGCTCTTTTTCTTTGGAATTGGTCAGTGAGAAATACTGGAAGTGAACAAACCCATGGAAC
TTATTACGCACCTACAAAGGAGCACAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203089 protein sequence
Red=Cloning site Green=Tags(s)

MSQAVQNTNGTQPLSKTWELSLYELQRTPEAITDGLIIVVSPRSLHSELMCPICLDMLKNTMTTKECLHR
 FCADCIIITALRSGNKECPTCRKKLVSKRSLRPDPNFDALISKIYPSRDEYEAHQERVLARINKHNNQAL
 SHSIEEGLKIQAMNRLQRGKKQQIENGSGAEDNGDSSHCNASTHNSNQEAGPSNKRRTKTSDDSGLELDNN
 NAAMAIDPVMGDGASEIELVFRPHPTLMKDDSAQTRYIKTSGNATVDHL SKYLAVRLALEELRSKGESNQ
 MNLDTASEKQYTIYIATASGQFTVLNGSFLELVSEKYWKVNKPMELYAPTKEHK

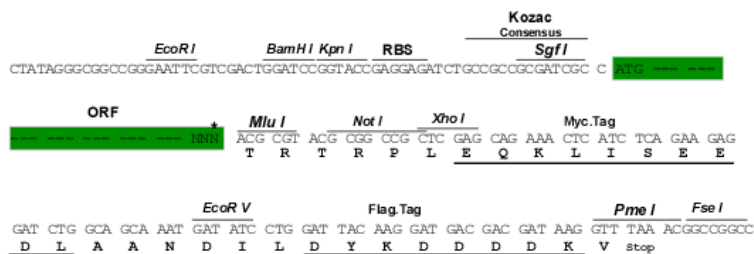
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6154_g09.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_007212

ORF Size: 1008 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_007212.4](#)

RefSeq Size: 3551 bp

RefSeq ORF: 1011 bp

Locus ID: 6045

UniProt ID: [Q99496](#)

Cytogenetics: 1q25.3

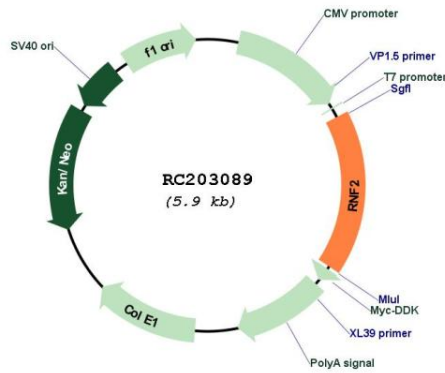
Domains: RING

Protein Families: Druggable Genome, Transcription Factors

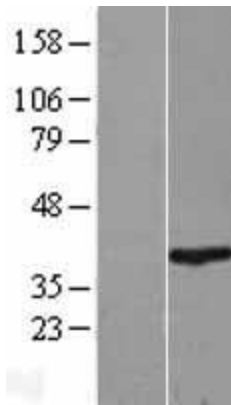
MW: 37.7 kDa

Gene Summary: Polycomb group (PcG) of proteins form the multiprotein complexes that are important for the transcription repression of various genes involved in development and cell proliferation. The protein encoded by this gene is one of the PcG proteins. It has been shown to interact with, and suppress the activity of, transcription factor CP2 (TFCP2/CP2). Studies of the mouse counterpart suggested the involvement of this gene in the specification of anterior-posterior axis, as well as in cell proliferation in early development. This protein was also found to interact with huntingtin interacting protein 2 (HIP2), an ubiquitin-conjugating enzyme, and possess ubiquitin ligase activity. [provided by RefSeq, Jul 2008]

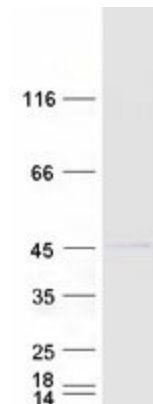
Product images:



Circular map for RC203089



Western blot validation of overexpression lysate (Cat# [LY402109]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203089 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RNF2 protein (Cat# [TP303089]). The protein was produced from HEK293T cells transfected with RNF2 cDNA clone (Cat# RC203089) using MegaTran 2.0 (Cat# [TT210002]).