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Product datasheet for RG203089

RNF2 (NM_007212) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF2 (NM_007212) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RNF2
Synonyms:	BAP-1; BAP1; DING; HIPI3; RING1B; RING2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG203089 representing NM_007212
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTCAGGCTGTGCAGACAAACGGAACTCAACCATTAAGCAAAACATGGGAACTCAGTTTATATGAGT
TACAACGAACACCTCAGGAGGCAATAACAGATGGCTTAGAAATTGTGGTTTCACCTCGAAGTCTACACAG
TGAATTAATGTGCCCAATTTGTTTGGATATGTTGAAGAACACCATGACTACAAAGGAGTGTTTACATCGT
TTTTGTGCAGACTGCATCATCACAGCCCTTAGAAGTGGCAACAAAGAATGTCCTACCTGTCGGAAAAAAC
TAGTTTCCAAAAGATCACTAAGGCCAGACCCAAACTTTGATGCACTCATCAGCAAAATTTATCCAAGTCG
TGATGAGTATGAAGCTCATCAAGAGAGAGTATTAGCCAGGATCAACAAGCACAATAATCAGCAAGCACTC
AGTCACAGCATTGAGGAAGGACTGAAGATACAGGCCATGAACAGACTGCAGCGAGGCAAGAAACAACAGA
TTGAAAATGGTAGTGGAGCAGAAGATAATGGTGACAGTTCACACTGCAGTAATGCATCCACACATAGCAA
TCAGGAAGCAGGCCCTAGTAACAAACGGACCAAAACATCTGATGATTCTGGGCTAGAGCTTGATAATAAC
AATGCAGCAATGGCAATTGATCCAGTAATGGATGGTGCTAGTGAAATTGAATTAGTATTCAGGCCTCATC
CCACACTTATGGAAAAAGATGACAGTGCACAGACGAGATACATAAAGACTTCTGGTAACGCCACTGTTGA
TCACTTATCCAAGTATCTGGCTGTGAGGTTAGCTTTAGAAGAACTTCGAAGCAAAGGTGAATCAAACCAG
ATGAACCTTGATACAGCCAGTGAGAAGCAGTATACCATTTATATAGCAACAGCCAGTGGCCAGTTCACTG
TATTAAATGGCTCTTTTTCTTTGGAATTGGTCAGTGAGAAATACTGGAAAGTGAACAAACCCATGGAACT
TTATTACGCACCTACAAAGGAGCACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

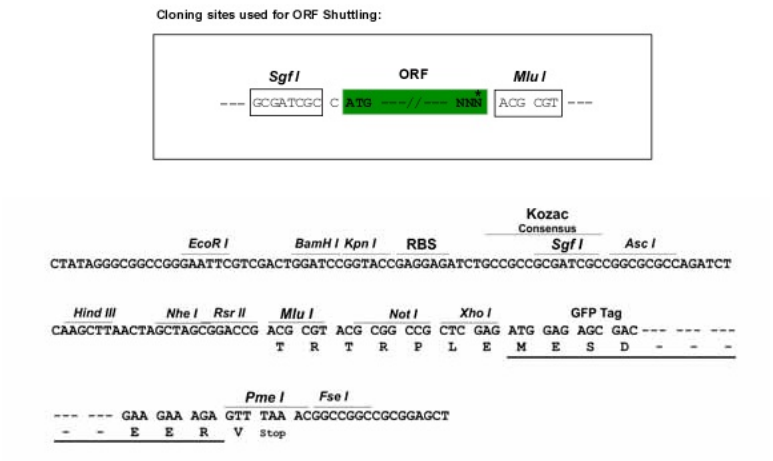
>RG203089 representing NM_007212
Red=Cloning site Green=Tags(s)

MSQAVQTNGTQPLSKTWELSLYELQRTPQEAITDGLEIVVSPRSLHSELMCPICLDMLKNTMTTKECLHR
FCADCIITALRSGNKECPTCRKKLVSKRSLRPDPNFDALISKIYPSRDEYEAHQERVLARINKHNNQQAL
SHSIEEGLKIQAMNRLQRGKKQQIENGSGAEDNGDSSHCSNASTHSNQEAGPSNKRTKTSDDSGLELDNN
NAAMAIDPVMDGASEIELVFRPHPTLMEKDDSAQTRYIKTSGNATVDHLSKYLAVRLALEELRSKGESNQ
MNLDTASEKQYTIYIATASGQFTVLNGSFSLELVSEKYWKVNKPMELYYAPTKEHK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

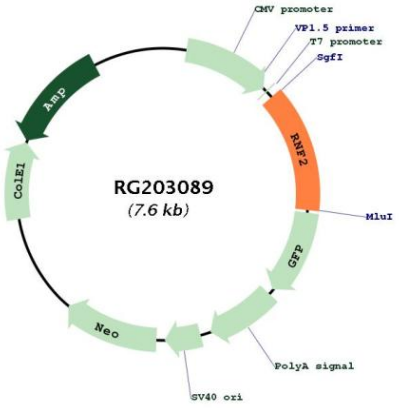
Cytogenetics: 1q25.3

Domains: RING

Protein Families: Druggable Genome, Transcription Factors

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 RG203089