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Product datasheet for RC205407

RNF113B (NM_178861) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF113B (NM_178861) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RNF113B
Synonyms:	bA10G5.1; RNF161; ZNF183L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC205407 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCGCCACCTTCTCCAGGAAGGACGGCCGACCAAGCAGACCAGGTATGCACCTTCCTCTTCAAAA
AGCCTGGACGGAAAGGGGCTGCAGGCCTCAGAAAGCGCCCGGCCTGCGACCCCGAGCACGGAGAGAGCAG
CAGCAGCGGGGACGAGGGCGACACAGTGGCTCAGCCCCCGCGGGTGGCACCGAGGCCCCGGGGCCTCCAC
AGCTGGCAGAAGGCGGCTCACGGCGACAGGAGGGGCGAGGAGGCGGCGCCTGAGAGCCTCGACGTGGTGT
ACAGGTCCACCCGCTCGGCGAAGCCTGTGGGGCCGGAGGACATGGGGGCCACCGCTGACTTCGAGCAGGA
CACCGAGAAGGAGCACCATACGCCGACCATCCTCAAGTGCAGCCAGCGGGTCCAGGAGGCACTGCGGGGT
CGGGAGCACGACCACATCTACCGGGGAATCCACAGCTACCTGAGGTACCTGAAGCCCAAGGACACGTCCA
TGGGCAACTCCTCCTCGGGGATGGCGAGGAAGGGCCCCATACGTGCGCCAGGGCATCTGCGCGCCACTGT
GCGCTGGGATTACCAGCCTGACATCTGCAAGGACTACAAGGAGACTGGCTTCTGTGGCTTCGGGGACAGC
TGCAAATTCCTCCACGACCGTTCCGATTACAAGCTCGGGTGGGAGATTGAACGGGAGCTTGAAGAGGGTC
GCTACTGTATCTGCGAGGACGAAAACCATGAAGTGGGAAGCGAGGAAGAGGAAATACCATTCAGGTGTTT
CATATGTCGCCAGGCCTTCCAAAACCCAGTCGTCACCAAGTGCAGGCATTATTTCTGCGAGAGCTGCGCG
CTGGAGCACTTCCGGGCCACCCCGCGCTGCTACATCTGTGACCAGCCAACCGGCGGCATCTTTAACCCCG
CCAAAGAACTGATGGCGAAACTGCAAAAGCTTCAGGCTGCAGAAGGAAAAAAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

```
>RC205407 protein sequence
Red=Cloning site Green=Tags(s)

MAAPPSPGRTADQADQVCTFLFKKPGRKGAAGLRKRPACDPEHGESSSSGDEGDTVAQPPRVAPRPRGLH
SWQKAAHGDRRGEEAAPESLDVVYRSTRSAKPVGPEDMGATADFEQDTEKEHHTPTILKCSQRVQEALRG
REHDHIYRGIHSYLRYLKPKDTSMGNSSSGMARKGPIRAPGHLRATVRWDYQPDICKDYKETGFCGFGDS
CKFLHDRSDYKLGWEIERELEEGRYCICEDENHEVGSEEEEIPFRCFICRQAFQNPVVTKCRHYFCESCA
LEHFRATPRCYICDQPTGGIFNPAKELMAKLQKLQAAEGKKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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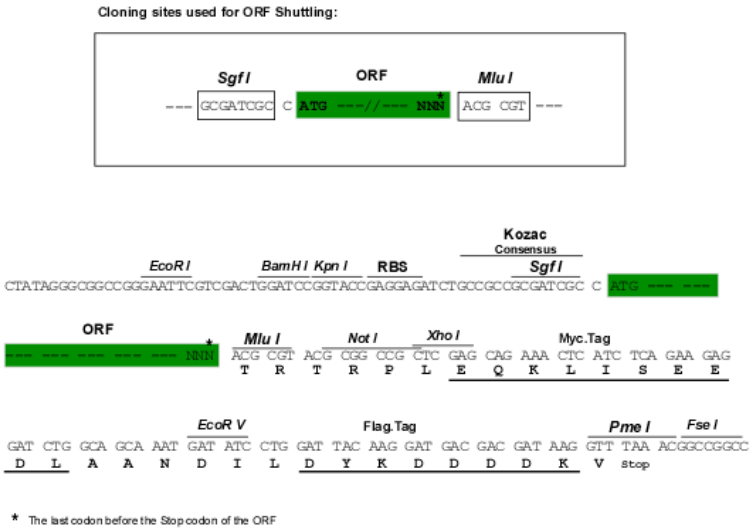
Chromatograms: https://cdn.origene.com/chromatograms/mk6315_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178861

ORF Size: 966 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).

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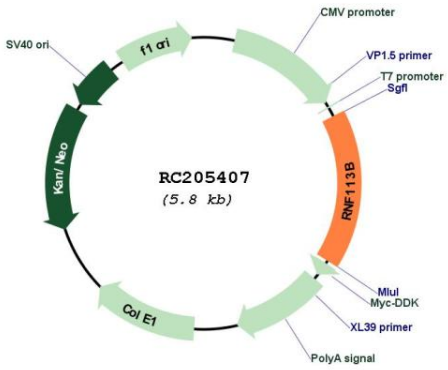
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_178861.3
RefSeq Size:	1381 bp
RefSeq ORF:	969 bp
Locus ID:	140432
UniProt ID:	Q8IZP6
Cytogenetics:	13q32.2
Protein Families:	Druggable Genome
MW:	36.3 kDa

Product images:



Circular map for RC205407

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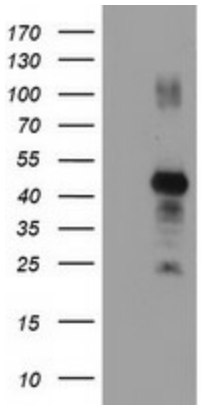
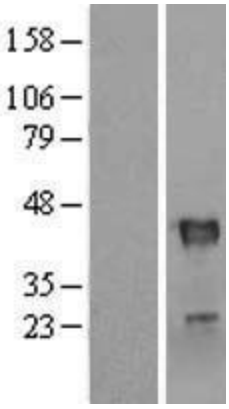
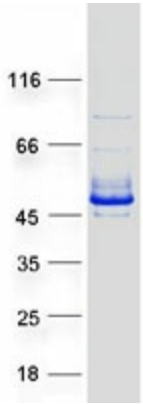


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RNF113B (Cat# RC205407, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RNF113B(Cat# [TA504117]). Positive lysates [LY405825] (100ug) and [LC405825] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY405825]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205407 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RNF113B protein (Cat# [TP305407]). The protein was produced from HEK293T cells transfected with RNF113B cDNA clone (Cat# RC205407) using MegaTran 2.0 (Cat# [TT210002]).

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