

Product datasheet for **RC201048**

RNF181 (NM_016494) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RNF181 (NM_016494) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RNF181
Synonyms: HSPC238
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201048 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCCTATTTTCGATGAACACGACTGCGAGCCGTCGGACCCTGAGCAGGAGACGGAACCAACATGC
TGCTGGAGCTCGCAAGGTCACCTTTCAATAGGATGGACTTTGAAGACTTGGGTTGGTAGTAGATTGGGA
CCACCACCTGCCACCAGCTGCCAAGACTGTGGTTGAGAACCTCCCCAGGACAGTCATCAGAGGCTCT
CAGGCTGAGCTCAAGTCCCCGTGTCTTTTGAATTTGAGGAGGAGACTGCCATTGAGATGCCTT
GCCATCACCTTTCCATTCCAGCTGCATTCTGCCCTGGCTAAGCAAGACAAATTCCTGTCCCTTGCCG
CTATGAGCTGCCACTGATGACGACACTTATGAGGAGCACAGACGAGATAAGGCTCGAAAACAGCAGCAG
CAACACCGACTGGAGAACCTCCATGGAGCCATGTACACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201048 protein sequence
Red=Cloning site Green=Tags(s)
MASYFDEHDCEPSDPEQETRTNMLLELARSLFNRMDFEDLGLVVDWDHHLPPPAAKTVVENLPRTVIRGS
QAEKCPVCLLEFEETAIEMPCHLFHSSCILPWLSKTNSCP LCRYELPTDDDTYEEHRRDKARKQQQ
QHRLENLHGAMYT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

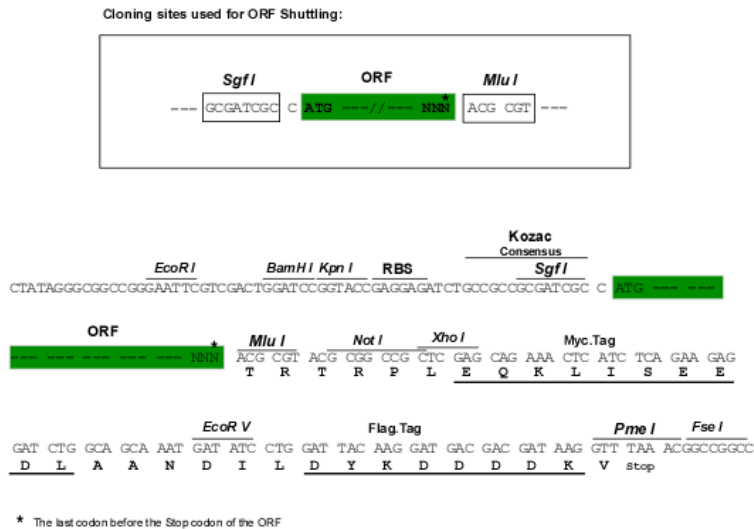
Chromatograms: https://cdn.origene.com/chromatograms/mk6389_a09.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016494

ORF Size: 459 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

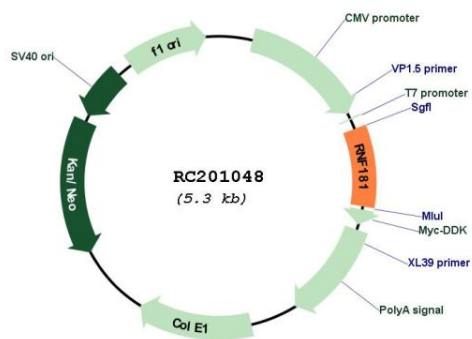
RefSeq: [NM_016494.4](#)

RefSeq Size: 716 bp

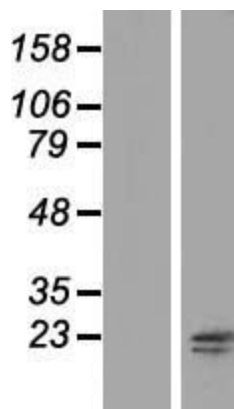
RefSeq ORF: 462 bp

Locus ID: 51255
UniProt ID: [Q9P0P0](#)
Cytogenetics: 2p11.2
Protein Families: Druggable Genome
MW: 17.9 kDa
Gene Summary: RNF181 binds the integrin alpha-IIb (ITGA2B; MIM 607759)/beta-3 (ITGB3; MIM 173470) complex and has E3 ubiquitin ligase activity (Brophy et al., 2008 [PubMed 18331836]). [supplied by OMIM, Dec 2008]

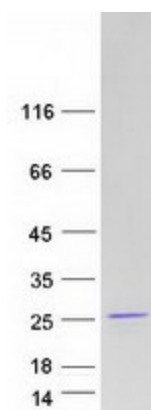
Product images:



Circular map for RC201048



Western blot validation of overexpression lysate (Cat# [LY413935]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201048 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RNF181 protein (Cat# [TP301048]). The protein was produced from HEK293T cells transfected with RNF181 cDNA clone (Cat# RC201048) using MegaTran 2.0 (Cat# [TT210002]).