

Product datasheet for **RC209752**

ZNF313 (RNF114) (NM_018683) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF313 (RNF114) (NM_018683) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF313
Synonyms:	PSORS12; ZNF313
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209752 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCACAACAGCGGGACTGCGGGGTGCTGCGCAGCTGGCGGGCCGGCGGGAGGCTGACCC
TAGGACGCTTACAGTGTCCCGTGTGCTTAGAGGTGTACGAGAAGCCGGTACAGGTGCCCTGCGGACACGT
CTTTTGTCTGCATGCCTGCAGGAATGTCTGAAGCCGAAGAAGCCTGTCTGTGGGTGTGTCGACGCGCT
CTGGCACCTGGCGTCCGAGCCGTGGAGCTCGAGCGGCAGATCGAGAGCACAGAGACTTCTTGCCATGGCT
GCCGTAAGAATTTCTTCTGTCCAAGATCCGGTCCCACGTGGCTACTTGTCCAATACCAGAATTACAT
CATGGAAGGTGTGAAGGCCACCATTAAAGGATGCATCTCTTCAGCCAAGGAATGTTCCAAACCGTTACACC
TTTCTTGTCTTACTGTCTGAGAAGAACTTTGATCAGGAAGGACTTGTGGAACACTGCAAATTATTCC
ATAGCACGGATACCAAATCTGTGGTTTGTCCGATATGTGCTCGATGCCCTGGGGAGACCCCAACTACCG
CAGCGCAACTTCAGAGAGCACATCCAGCGCCGGCACCAGTCTTATGACACTTTTGTGGATTATGAT
GTTGATGAAGAGGACATGATGAATCAGGTGTTGCAGCGCTCCATCATCGACCAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209752 protein sequence
Red=Cloning site Green=Tags(s)

MAAQQRDCGGAAQLAGPAAEADPLGRFTCPVCLEVYEKPVQVPCGHVFCACLQECLKPKKPVCGVCRSA
 LAPGVRAVELERQIESTETSCHGCRKNFLLSKIRSHVATCSKYQNYIMEGVKATIKDASLQPRNPNRYT
 FPCPYCPEKNFDQEGLVEHCKLFHSTDTKSVVCPICASMPWGDPNYRSANFREHIQRHRFSYDTFVDYD
 VDEEDMMNQVLQRSIIDQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6529_g12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018683

ORF Size: 684 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_018683.4](#)

RefSeq Size: 2478 bp

RefSeq ORF: 687 bp

Locus ID: 55905

UniProt ID: [Q9Y508](#)

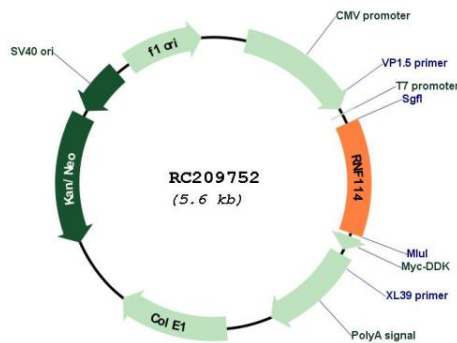
Cytogenetics: 20q13.13

Domains: RING, zf-C2H2

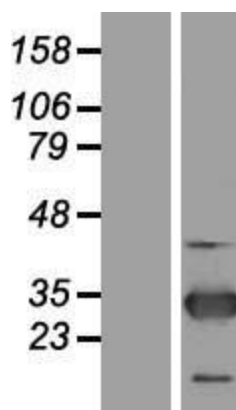
MW: 25.7 kDa

Gene Summary: E3 ubiquitin-protein ligase promoting the ubiquitination and degradation of the CDK inhibitor CDKN1A and probably also CDKN1B and CDKN1C. These activities stimulate cell cycle's G1-to-S phase transition and suppress cellular senescence. May play a role in spermatogenesis. [UniProtKB/Swiss-Prot Function]

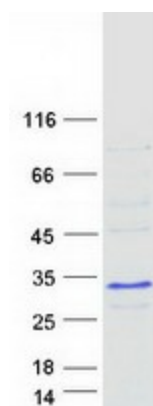
Product images:



Circular map for RC209752



Western blot validation of overexpression lysate (Cat# [LY412984]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209752 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RNF114 protein (Cat# [TP309752]). The protein was produced from HEK293T cells transfected with RNF114 cDNA clone (Cat# RC209752) using MegaTran 2.0 (Cat# [TT210002]).