

Product datasheet for **RC203547**

ZNF213 (NM_004220) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF213 (NM_004220) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF213
Synonyms:	CR53; ZKSCAN21; ZSCAN53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC203547 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGCCCCCTTGAGGCCAGGACCAGGCCCTGGGAGGGAGAAGGGCTTCTGATTGTGAAAGTGG
 AAGATTCCTCTGGGAACAGGAATCTGCCAGCATGAGGATGGCAGGGATTCCGAAGCCTGCCGCCAGCG
 CTTCCGGCAATTCTGCTACGGGGATGTGCATGGGCCTCATGAGGCCTTCAGCCAGCTCTGGGAGCTCTGC
 TGCCGCTGGCTGCGGCCGAGCTGCGTACCAAGGAGCAGATCCTGGAGCTGCTGGTGTGGAGCAGTTCC
 TGACAGTGTGCCAGGGGAGATCCAGGGCTGGGTGCGTGAGCAGCACCCGGGAAGCGGTGAGGAGGCTGT
 CGCCTTGGTGGAGGACCTACAGAAGCAGCCAGTAAAGCCTGGCGACAGGATGTGCCCTCGGAGGAGGGC
 GAACCCGAGGCTGCAGGCCGGGATCCCAGGCCACGGGGCTCCCCGACGGTGGGGGCACGGAGGGCGC
 CGTCTGTTCCCCAGGAGCAGCACAGCCATAGCGCCAGCCTCTGCTCTTCTAAAGAGGGTCGTCCCGG
 AGAGACGACGGACACCTGCTTTGTCTCTGGGTCCATGGACCTGTGGCATTGGGAGACATCCCATTCTAT
 TTCTCCCGGAAGAATGGGGCACCTGGACCCTGCTCAGCGGGATCTTCTCTGGGACATAAAGCGGGAGA
 ACTCCCGGAACACCACCTGGGTTTTGGGCTCAAAGGCCAAAGTGAGAAGTCCCTGCTGCAGGAGATGGT
 GCCGGTGGTGCCAGGCCAGACAGGCAGCGACGTGACTGTGTCTGGAGCCCCGAGGAGGCTGAGGCCTGG
 GAGAGCGAGAACCGGCCGAGGGCGGCCCTGGGCCAGTGGTGGGCGCGCACGGGGCGGCCACCCACTC
 GCCGGCGCCAGTTCGGGACCTGGCAGCCGAGAAGCCGCACAGCTGCGGGCAGTGTGAAAGCGCTTCCG
 CTGGGGCTCGGACCTGGCGGGCACCAGCGCACGCACACGGGCGAGAAGCCACACAAGTGCCTGAGTGC
 GACAAGAGCTTCCGCAGCTCCTCGGACCTGGTGCGCCACCAAGGCGTGCACACGGGCGAGAAGCCCTTCT
 CCTGTTCCGAGTGCGGCAAGAGCTTACGCCGACGCGCTACCTGGCCGACCACCGCGCATACACACGGG
 CGAGAAGCCTTTTCGGCTGCAGCGACTGCGGCAAGAGCTTCTCGCTGCGCTCCTACCTGCTGGACCATCGG
 CGTGTGCACACCGGTGAGCGGCCCTTCGGCTGCGGAGAGTGCACAAAGAGCTTAAAGCAGCGCGCCACC
 TCATCGCGCATCAGAGCCTGCACGCCAAGATGGCCAGCCCGTGGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203547 protein sequence
 Red=Cloning site Green=Tags(s)

MAAPLEAQDQAPGEGEGLLIVKVEDSSWEQESAQHEDGRDSEACRQRFQFCYGDVHGPHEAFSQLWELC
 CRWLRPELRTKEQILELLVLEQFLTVLPGEIQGWVREQHPGSGEEAVALVEDLQKQPVKAWRQDVPSEEA
 EPEAAGRGSQATGPPPTVGARRRPSVPQEQHSHSAQPPALLKEGRPGETDTCFVSGVHGPVALGDIPFY
 FSREEWGLDPAQRDLFWDIKRENSRNTLGFGLKGQSEKSLLEMPVVPVPGQTGSDVTVSWSPEEAEAW
 ESENRPRAALGPVVGARRGRPPTRRRQFRDLAAEKPHSCGQCGRFRWGSDLARHQRTHTGEKPHKCEP
 DKSFRRSSDLVRHQGVHTGEKPFSCSECGKFSRSAYLADHQRIHTGEKPFGCSDCGKSFSLRSYLLDHR
 RVHTGERPFGCGECDKSFQRAHLIAHQSLHAKMAQPVG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6078_d09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_004220

ORF Size: 1377 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_004220.3](#)

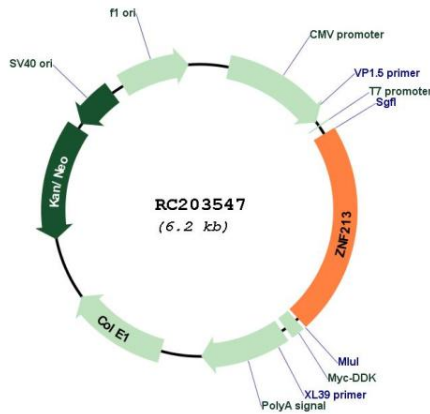
RefSeq Size: 3301 bp

RefSeq ORF: 1380 bp

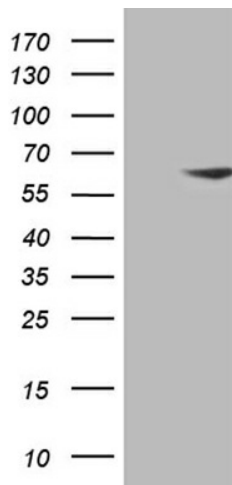
Locus ID: 7760

UniProt ID: [O14771](#)
Cytogenetics: 16p13.3
Protein Families: Transcription Factors
MW: 51.3 kDa
Gene Summary: C2H2 zinc finger proteins, such as ZNF213, have bipartite structures in which one domain binds DNA or RNA and the other modulates target gene expression.[supplied by OMIM, Apr 2004]

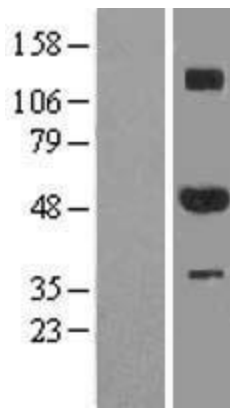
Product images:



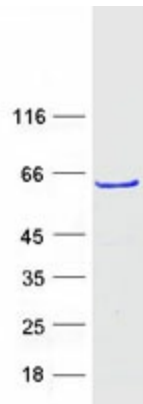
Circular map for RC203547



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ZNF213 (Cat# RC203547, 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-ZNF213 (Cat# [TA810393])(1:500). Positive lysates [LY418147] (100ug) and [LC418147] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY427465]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225770] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZNF213 protein (Cat# [TP303547]). The protein was produced from HEK293T cells transfected with ZNF213 cDNA clone (Cat# RC203547) using MegaTran 2.0 (Cat# [TT210002]).