

Product datasheet for RC211927

ZNF114 (NM_153608) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF114 (NM_153608) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF114
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211927 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCCAGGACTCGGTGACCTTCGCAGACGTGGCTGTGAACTTCACCAAAGAGGAGTGGACCCTGCTGG
ACCCAGCTCAGAGGAATCTCTACAGAGACGTGATGCTGGAAAATCTAGGAACTTGGCATTTCATAGATTG
GGCAACTCCATGTAAAACCAAAGACGCAACCCCTCAGCCGGATATTCTTCCTAAAAGAACATTTCTGAA
GCCAACAGAGTGTGTCTCAGGACATCAGTTCACGACTCCACATTAAGAGAAGACTGGAGATGCCCA
AAACAGAGGAACACACAGGCAGGGGTGAATAATGTGAAGCCACCTGCAGTTGCCCTGAGAAAGATGA
ATCTCCTGTTAGCATTGTGAAGATCATGAAATGAGGAACCACTCTAAACCTACCTGCAGGCTTGTGCCT
TCACAGGGAGATTCCATAAGACAATGTATCCTAACACGTGACTCAAGTATTTCAAGTATAATCCTGTCT
TAAACGATAGTCAAAAAACACATGAAAACAACGAAGACGATGGAGTCTTGGGGTGGAAACATTCAGTGGGT
TCCGTGTGGGAGAAAAACAGAGCTGAAATCAAGCACATGGACTGGCAGTCAGAACACTGTGCATCATATA
CGTGATGAAATTGATACGGGGCCAACAGGCACCAGCGGAATCCATTTGGAAAAGCTTCCGTGAAGACG
GATCCCTTAGGGCACACAACACTCATGGTCGAGAGAAAATGTATGATTTACTCAGTGCAGAAACACCTC
CAGAAATAACTCAATTCAGCCATGCAGATGCAGTTGTATACCGCAGAGACAAACAAGAAGATTGTCAA
ACTGGGGCAACCTCTGCCAACGTCCTCAAAATCCGGTTCACACAAGAGTCATTGCACTGGAGAGAAAACCC
ATAAATGCCCGAATGTGGGAGAGCCTTTTTTATCAGTCATTCTTATGAGACATATGAAAATTCACAC
TGGAGAGAAACCGTATGATGTGGGAAATGTGGGAAAGCCTTTAGATATTCCTTACACCTTAATAAACAT
TTAAGAAAGCATGTTGTGCAGAAGAAGCCCTACGAATGTGAAGAATGTGGGAAAGTCATTGGGAGTCTC
CAAAATATACACATATAAGGAGCCACACTGGAGAGAAACCTATAAATGTAAGACATGTGGAAAAGACTT
TGCAAAGTCGTCAGGACTTAAAAACATCTAAGACTCACAAAGATGAGAAGCCCTGTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAAGTTTAA



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Protein Sequence: >RC211927 protein sequence
Red=Cloning site Green=Tags(s)

MSQDSVTFADVAVNFTKEEWTLDDPAQRNLYRDVMLENSRNLAFIDWATPCKTKDATPQPDILPKRTFPE
 ANRVCLTSISSQHSTLREDWRCPKTEEPHRQGVNNVKKPPAVAPEKDESPVSI CEDHEMRNHSKPTCRLVP
 SQGDSIRQCILTRDSSIFKYNPVLNDSQKTHENNEDDGLWNIQWVPCGRKTELKSSWTG SQNTVHHI
 RDEIDTGANRHQRNPF GKAFREDGSLRAHNTHGREKMYDF TQCENTSRNNSIHAMQMQLYTAETNKKDCQ
 TGAT SANAPNSGSHKSHCTGEKTHKCPECGRAFFYQSFLMRHMKIHTGEKPYECGKCGKAFRYSLHLNKH
 LRKHVVQKKPYECEECGKVIRESSKYTHIRSH TGEKPYCKCTCGKDFAKSSGLKKHLKTHKDEKPC E

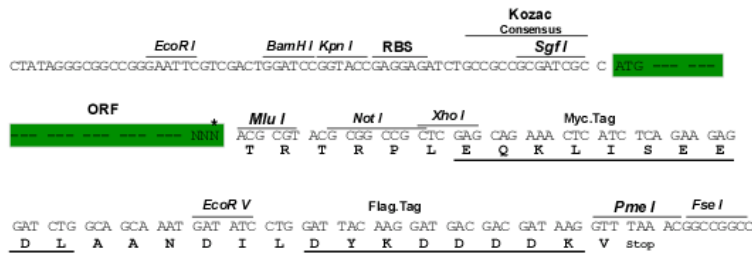
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6562_g07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_153608

ORF Size: 1251 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_153608.4](#)

RefSeq Size: 2496 bp

RefSeq ORF: 1254 bp

Locus ID: 163071

UniProt ID: [Q8NC26](#)

Cytogenetics: 19q13.33

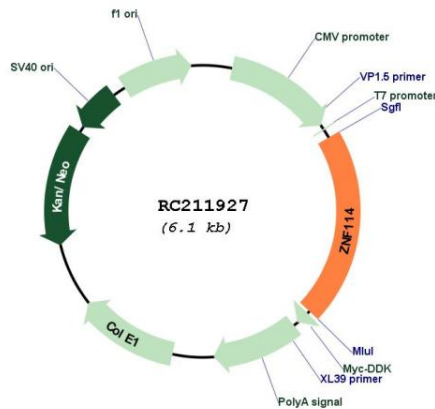
Domains: KRAB, zf-C2H2

Protein Families: Transcription Factors

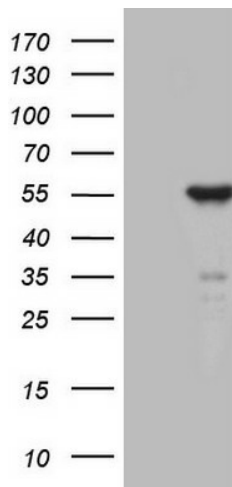
MW: 47.7 kDa

Gene Summary: May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

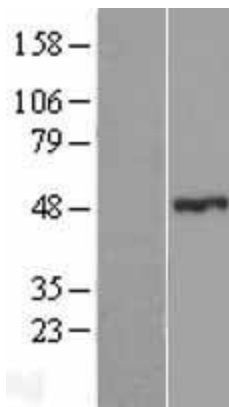
Product images:



Circular map for RC211927



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ZNF114 (Cat# RC211927, 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-ZNF114 (Cat# [TA809103])(1:2000). Positive lysates [LY407023] (100ug) and [LC407023] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY407023]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211927 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).