

Product datasheet for **RC214494**

Zinc finger protein 682 (ZNF682) (NM_033196) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zinc finger protein 682 (ZNF682) (NM_033196) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zinc finger protein 682
Synonyms:	BC39498_3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC214494 representing NM_033196
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAGCTGTTGACATTCAGGGATGTGACCATAGAATTCTCTCTGGAGGAGTGGGAGTTTCTGAACCTG
 CTCAGCAGAGTTTGTATAGGAAAAGTGATGCTAGAGAACTACAGAAACCTGGTCTCTCTGGGTCTTACTGT
 TTCTAAGCCAGAAGTATTAGCCGTCTGGAGCAAAGACAGGAGCCCTGGAATGTGAAGAGACATGAGACC
 ATAGCCAAACCCAGCTATGTCTTCTACTACTGAAGACCTTTTCCAGAACAGTGCATGCAAGATT
 CATTCCAAAAAGTGATACTGAGAAGATATGGAAGCTGTGGACTTGAGGATTTACTTAAAGGAAGGATGG
 GGAAAAATGTGGGTGAGTGAAGGATCAAAAAGAAATTTATAATGGACTTAAACCAATGTTTGTCAACTCTA
 CCTAGCAAAATTTCCCATATAAATATGTGTGAAAGTCTTTAGTAAATCATCAAATCTAAATAGAGAAA
 ACATAAGACATACTACAGAGAACTTTCAAATGTATGCAATGTGGCAAAGTCTTTAAATCTCACTCAGG
 CCTTTCTTATCATAAGATAATTCACACTGAAGAGAACTCTGCATATGTGAGGAATGTGGCAAACCTTT
 AAGTGGTTCTCATACCTTACTAAACATAAGAGAATTCACACTGGAGAGAAACCATACAAATGTGAAGAAT
 GTGGCAAAGCTTTTAACTGGTGCTCGAGTCTTACTAAACATAAGAGAATCCATACTGGTGAGAAACCTTA
 CAAATGTGAAGAATGTGGAAAAGCCTTTACTGGTGTTCAACCTTTGTTAGACATAAGAAAATTCATACA
 GGAGAAAACCTTATACATGTGAAGACTGTGGCAGAGCGTTTAAACGGCACTCACATCTCACAAACATA
 AGACAATTCACACTGGAAAGAAACCTACAAATGTAAAGAATGTGGGAAAGCCTTTAACCCTGCTCACT
 ACTTACTATACATGAGAGAACCCATACGGGAGAGAAACCTATAAATGTGAAGAATGTGGCAAAGCTTTT
 AACTCATCATCAATCTTACTGAACATAAGGTAATTCATAGCGGAGAGAAACCTACAAATGTGAAAAAT
 GTGACAAAGTCTTTAAGAGGTTCTCATACCTTACTAAACACAAGAGAATTCACACTGGAGAGAAACCTTA
 CAAATGTGAAGAATGTGGCAAAGCTTTTAACTGGTGCTCAATCCTTACTGAACATAAGAGAATTCATACT
 GGAGAGAAACCTACAACGTGAAGAATGTGGAAAAGCCTTTAATCGGTGCTCACACCTTACTAGACATA
 AGAAAATTCATACTGCCGTCAAACGCTATAAATGTGAAGAATGTGGCAAAGCTTTTAAACGGTGCTCACA
 TCTTAATGAACATAAGAGAGTTCAAAGAGGAGAGAAATCTGCAAGTATAAAAAATGTGGGGAAGCTTTT
 AATCACTGCTCAAACCTTACTACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214494 representing NM_033196
 Red=Cloning site Green=Tags(s)

MELLTFRDVTIEFSLEEWFLNPAQQSLYRKVMLENYRNLVSLGLTVSKPELISRLEQRQEPWNVCRHET
 IAKPPAMSSHYTEDLLPEQCMQDSFQKVIILRRYGSCGLEDLHLRKDGENVGECKDQKEIYNGLNQCLSTL
 PSKIFPYNKCVKVFSSKSNLNRENIRHTTEKLFKCMQCGKVFKSHSGLSYHKIIHTEEKLCICECGKTF
 KWF SYLTKHKRIHTGEKPYKCEECGKAFNWCSSTLTKHKRIHTGEKPYKCEECGKAFHWCSFVRHKKIHT
 GEKPYTCEDCGRAFNRHSHLTKHKTHTGKPKYKCEECGKAFNHCSLLTIHERHTHTGEKPYKCEECGKAF
 NSSSILTEHKVIHSGEKPYKCEKCDKVFKRFSYLTKHKRIHTGEKPYKCEECGKAFNWSSSILTEHKRIHT
 GEKPYNCEECGKAFNRCSHLTRHKKIHTAVKRYKCEECGKAFKRCSHLNEHKRVQRGEKSCKYKCKGEAF
 NHCSNLTT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6732_h05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_033196

ORF Size: 1494 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_033196.3](#)

RefSeq Size: 1497 bp

RefSeq ORF: 1497 bp

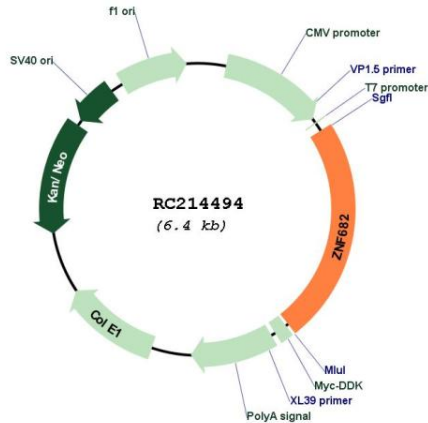
Locus ID: 91120

UniProt ID: [O95780](#)

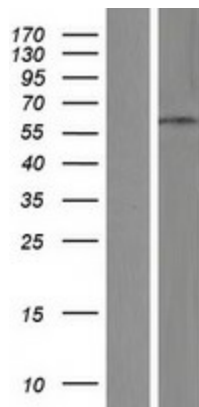
Cytogenetics: 19p12

Domains: KRAB, zf-C2H2
 Protein Families: Transcription Factors
 MW: 58.2 kDa
 Gene Summary: May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC214494



Western blot validation of overexpression lysate (Cat# [LY409674]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214494 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).