

Product datasheet for **RC224894**

Zinc finger protein 682 (ZNF682) (NM_001077349) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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)



ORF Nucleotide Sequence: >RC224894 ORF sequence, **codon optimized**.
Due to the complexity of NM_001077349, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCTCGAGAACTATAGAACTGGTGTCACTCGGTTTGAAGTGTGTCCAAACCCGAGTTGATCTCACGCC
TGGAACAGCGGCAAGAACCATGGAATGTTAAGCGGCACGAGACGATTGCTAAGCCGCTGCTATGAGCAG
CCACTATACAGAAGACCTCTTGCCGAACAGTGTATGCAGGATTCTTTTCAAGGTTATTCTGAGGAGA
TACGGCAGTTGTGGGCTCGAGGATCTCCATCTCAGAAAGGATGGCGAAAACGTGGGGAGTGCAAGGACC
AGAAGGAAATATACAATGGACTTAACCAAGTGTCTCTACCTTGCCCTCTAAGATCTTCCGTACAATAA
GTGTGTGAAAGTGTGTAGCAATCAAGCAATCTGAACCGGGAAAACATCCGCCACACTACGGAGAAAACCT
TTTAAATGTATGCAGTGTGGAAGGTTTCAAGAGTCAACGCGGACTCAGCTATCACAAAATTATCCATA
CCGAAGAAAAATTGTGCATATGCGAAGAGTGTGGCAAGACATTTAAATGGTTCTCTATCTGACAAAGCA
CAAAAGGATCCACACAGGTGAGAAAGCCGTACAAGTGCAGGAAGTGCAGGCAAGCCTTCAATTGGTGTCT
AGTCTGACGAAACACAAGAGGATACATACTGGAGAGAAGCCTTACAAGTGCAGGAGTGCAGTAAAGCCT
TTCATTGGTGTAGTCTTTTGTGACACATAAGAAAATTCATACAGGGGAAAAACCTACACGTGTGAAGA
TTGTGGGAGAGCATTCAATAGGCATCTCATTTGACCAAGCATAAGACCATACATACAGGAAGAAGCCC
TACAAGTGTAAAGAGTGTGGAAGGCCTTCAACCACTGCTCCCTGCTCACCATTGATGAACGAACCTCATA
CCGGAGAGAAGCCATACAAGTGCAGAGAGTGTGGTAAGGCCTTCAACTCATCTTCCATACTTACTGAACA
TAAAGTGATACATTCGGCGGAGAAGCCTTACAAGTGTGAGAAATGTGACAAGGTGTTCAAGAGATTCTCA
TATTTGACCAAGCACAACGAATTCATACAGGTGAGAAACCATAACAATGTGAAGAATGTGGAAGGCCT
TCAACTGGTCTAGTATCTGACTGAACACAAGAGAATTCACACAGGAGAGAAACCTATAATTGTGAGGA
GTGTGGAAGCCTTCAATAGGTGTTCCACCTCACCGGCACAAGAAGATCCATACCGCTGTTAAAGG
TACAAGTGTGAGGAATGCGGGAAAGCATTTAAGCGATGTTCTCACCTGAATGAACATAAGCGCGTACAGA
GGGCGGAGAAGAGCTGTAATACAAGAAATGTGGCGAGGCTTCAACCATTGTTCAACCTCACACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224894 representing NM_001077349
Red=Cloning site Green=Tags(s)

MLENYRNLSLGLTVSKPELISRLEQRQEPWNVCRHETIAKPPAMSSHYTEDLLPEQCMQDSFQKVIILRR
YGSCGLEDLHLRKDGENVGECKDQKEIYNGLNQCLSTLPSKIFPYNKCVKVFSSNNLNRENIRHTTEKL
FKCMQCGKVFKSHSGLSYHKIIHTEELKICIECGKTFKWFSYLTKHKRIHTGEKPYKCEECGKAFNWCS
SLTKHKRIHTGEKPYKCEECGKAFHWCSFVRHKKIHTGEKPYTCEDCGRAFNRHSHLTKHKTIHTGKKP
YKCECGKAFNHCSLLTIHERHTHTGEKPYKCEECGKAFNSSSILTEHKVIHSGEKPYKCEKCDKVFKRFS
YLTKHKRIHTGEKPYKCEECGKAFNWSSSILTEHKRIHTGEKPYNCEECGKAFNRCSHLTRHKKIHTAVKR
YKCEECGKAFKRCSHLNEHKRVQRGEKSCKYKCGEAFNHCSNLTT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001077349

ORF Size: 1398 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:

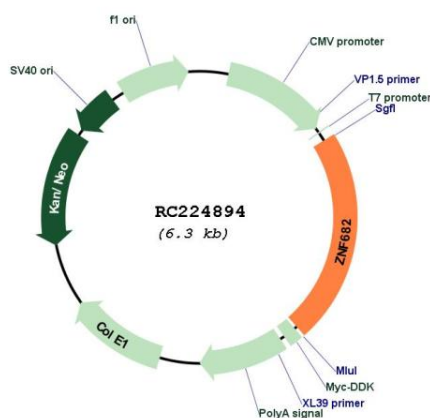
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001077349.1](#), [NP_001070817.1](#)

RefSeq Size:	3164 bp
RefSeq ORF:	1401 bp
Locus ID:	91120
Cytogenetics:	19p12
Protein Families:	Transcription Factors
MW:	54.4 kDa
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC224894