

Product datasheet for **RG214494**

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:	TurboGFP
Symbol:	ZNF682
Synonyms:	BC39498_3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214494 representing NM_033196
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAGTGTGACATTCAGGGATGTGACCATAGAATTCTCTCTGGAGGAGTGGGAGTTTCTGAACCTG
 CTCAGCAGAGTTTGTATAGGAAAAGTGATGCTAGAGAAGTACAGAAACCTGGTCTCTCTGGGTCTTACTGT
 TTCTAAGCCAGAAGTATTAGCCGTCTGGAGCAAAGACAGGAGCCCTGGAATGTGAAGAGACATGAGACC
 ATAGCCAAACCCAGCTATGTCTTCTACTACTGAAGACCTTTTCCAGAACAGTGCATGCAAGATT
 CATTCCAAAAAGTGATACTGAGAAGATATGGAAGCTGTGGACTTGAGGATTTACTTAAAGGAAGGATGG
 GGAAAAATGTGGGTGAGTGAAGGATCAAAAAGAAATTTATAATGGACTTAAACCAATGTTTGTCAACTCTA
 CCTAGCAAAATTTCCCATATAATAATGTGTGAAAGTCTTTAGTAAATCATCAATCTAAATAGAGAAA
 ACATAAGACATACTACAGAGAACTTTCAAATGTATGCAATGTGGCAAAGTCTTTAAATCTCACTCAGG
 CCTTTCTTATCATAAGATAATTCACACTGAAGAGAACTCTGCATATGTGAGGAATGTGGCAAACCTTT
 AAGTGGTTCTCATACCTACTAAACATAAGAGAATTCACACTGGAGAGAAACCATACAAATGTGAAGAAT
 GTGGCAAAGCTTTTAACTGGTGCTCGAGTCTTACTAAACATAAGAGAATCCATACTGGTGAGAAACCTA
 CAAATGTGAAGAATGTGGAAAAGCCTTTACTGGTGTTCAACCTTTGTTAGACATAAGAAAATTCATACA
 GGAGAAAACCTATACATGTGAAGACTGTGGCAGAGCGTTTAAACGGCACTCACATCTCACAAACATA
 AGACAATTCACACTGGAAAGAAACCTACAAATGTAAAGAATGTGGGAAAGCCTTTAACCCTGCTCACT
 ACTTACTATACATGAGAGAACCCATACGGGAGAGAAACCTATAAATGTGAAGAATGTGGCAAAGCTTTT
 AACTCATCATCAATCTTACTGAACATAAGGTAATTCATAGCGGAGAGAAACCTACAAATGTGAAAAAT
 GTGACAAAAGTCTTTAAGAGGTTTCTACACTTAAACACAAGAGAATTCACACTGGAGAGAAACCTA
 CAAATGTGAAGAATGTGGCAAAGCTTTTAACTGGTCTCAATCCTTACTGAACATAAGAGAATTCATACT
 GGAGAGAAACCTACAACGTGAAGAATGTGGAAAAGCCTTTAATCGGTGCTCACACCTTACTAGACATA
 AGAAAATTCATACTGCCGTCAAACGCTATAAATGTGAAGAATGTGGCAAAGCTTTTAAACGGTGCTCACA
 TCTTAATGAACATAAGAGAGTTCAAAGAGGAGAGAAATCTGCAAGTATAAAAAATGTGGGGAAGCTTTT
 AATCACTGCTCAAACCTTACTACG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214494 representing NM_033196
 Red=Cloning site Green=Tags(s)

MELLTFRDVTIEFSLSEWEFLNPAQQSLYRKVMLENYRNLVSLGLTVSKPELISRLEQRQEPWNVNRHET
 IAKPPAMSSHYTEDLLPEQCMQDSFQKILRRYGSCGLEDLHLRKDGENVGECKDQKEIYNGLNQCLSTL
 PSKIFPNKCVKVFSSSNLNRNIRHTTEKLFKCMQCGKVFKSHSGLSYHKIITHEEKLCEECGKTF
 KWFSYLTCHKRIHTGEKPYKCEECGKAFNWCSLTKHKRIHTGEKPYKCEECGKAFHWCSFPVRHKKIHT
 GEKPYTCEDCGRAFNHRSHLTKHKTIHTGKPKYKCEECGKAFNHCSLLTIHERHTHTGEKPYKCEECGKAF
 NSSSILTEHKVIHSGEKPYKCEKCDKVKRFKSYLTKHKRIHTGEKPYKCEECGKAFNWSSILTEHKRIHT
 GEKPYNCEECGKAFNRCSHLTRHKKIHTAVKRYKCEECGKAFKRCSHLNEHKRVQRGEKSCKYKCKGEAF
 NHCSNLTT

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



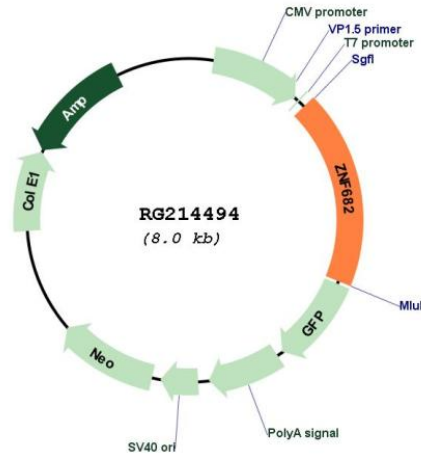
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                                     Kozac
                                     Consensus
          EcoR I       BamH I Kpn I   RBS       Sgf I       Asc I
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

      Hind III      Nhe I   Rsr II   Mlu I       Not I       Xho I       GFP Tag
CAAGCTTAACTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC GAG  ATG GAG  AGC GAC  --- --- ---
                          T   R   T   R   P   L   E   M   E   S   D   -   -   -

          Pme I       Fse I
--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
- - - E E R V Stop
    
```

Plasmid Map:



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

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