

Product datasheet for **RC224296**

ZNF506 (NM_001099269) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ZNF506
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC224296 ORF sequence, **codon optimized**.
Due to the complexity of NM_001099269, 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**CGCATCGC**

ATGGGCGCGTGCAGTTCGGGACGTGCTATCGAGTTCAGCCTGGAGGAGTGGCACTGCCTGGACGCCG
CCCAACGAAACCTCTACCGCGACGTAATGCTGGAGAACTATAGAAATCTGATTTTCTGGGAATCGTAGT
GTCCAAGCCTAATCTGATAACATGCCTCGAACAGGGCAAAAAGCCGCTTACAATGAAGCGGCACGAGATG
ATTGCAAAAGCCTCCCGTCATGTAATCTCACTTCGCCAGGACCTCTGGTCAGAGCAGTCTATCAAGGACT
CTTTTCAAAAAGTGATCTCCGAGATACGAGAAAGTGCAGGCACGACAATCTGCAGCTTAAGAAGGGCTG
CGAATCAGTGGACGAATGTCCGGTCCACAAGCGCGGTATAACGGCCTGAAACAGTGCCTTGCTACAACA
CAGCGCAAAATATTCAGTGCAGCAATATGTGAAGTTCCTCCACAAATTTAGTAACAGCAATAAGCACA
AAATTAGGGACACGGGAAAAAGTCTTTAAATGCATCGAGTATGGTAAACATTTAATCAATCTTCAAC
TAGGACTACTTACAAGAAGATAGACGCCGCGAGAAGAGGTACAAGTGTGAGGAGTGCGGTAAAGCATA
AAGCAGAGCTCCCATCTGACCAACCCATAAAAAAGATCCATACTGGAGAGAAACCATACAATGTGAAGAAT
GCGGGAAGCTTATAAGCAATCCTGCAACCTCACTACACACAAGATTATACACACAGGCGAAAAGCCGTA
CCGCTGTCGCGAATGTGGAAGGCTTTAATCATCCAGCCACTCTCTTCAGCCACAAGAAATTCACACA
GGAGAGAAACCTACAATGTGACAAGTGTGGCAAGGCATTTATCTTCTTCTACACTCACTAAGCATG
AAATTATTCACACAGGGGAAAAACCTATAAATGCGAGGAATGTGGAAGGCTTTAATAGGAGCTCAA
CCTGACAAAACATAAGCGAATTCACACAGGTGACGTTCCCTATAAGTGTGACGAGTGCGGGAAGACCTTC
ACGTGGTACAGTAGCTTGTCCAAGCATAAAGAGCCCCACACTGGAGAAAAGCCGTATAAGTGTGAGGAGT
GTGGGAAAGCTTTACAGCCTTCAGCACACTCACGGAGCACAAAATCATACACTGGAGAAAAGCCCTA
TAAGTGCAGGAGTGCAGAAAAGCCTTTAACTGGTCATCAGCTCTGAACAAACACAAAAGATTATATA
AGACAGAAACCTGTATTGTGAAGAATGTGGAACCTTCTGAATGTGCCACAGCCCCTGATCAGTATCA
GA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

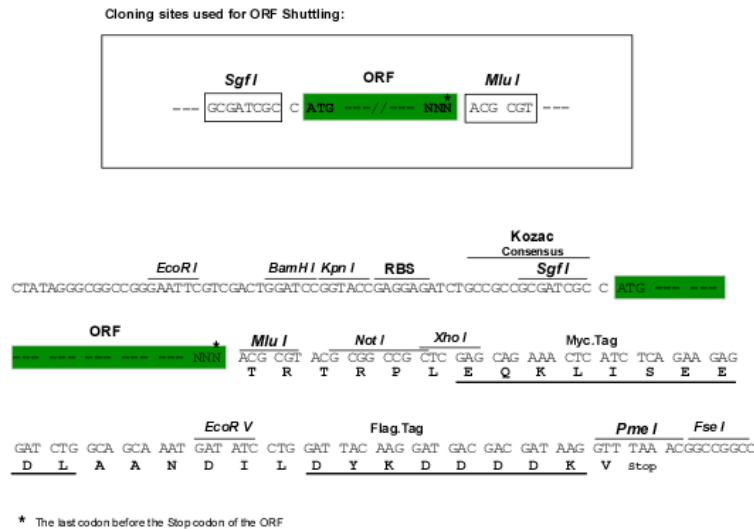
Protein Sequence: >RC224296 representing NM_001099269
Red=Cloning site Green=Tags(s)

MGPLQFRDVAIEFSLEEWHLDAQNRNLYRDVMLENYRNLI FLGI VVSKPNLITCLEQGKKPLTMKRHEM
IAKPPVMYSHFAQDLWSEQSIKDSFQKVLRRYEKCRHDNLQLKKGCEVDECPVHKRGYNLKLQCLATT
QRKIFQCDEYVKFLHKFSNSNKHKIRDTGKKSFKCIEYGKTFNQSSSTRTTYKKIDAGEKRYKCEECGKAY
KQSSHLTTHKKIHTGEKPYKCEECGKAYQSCNLTTHKKIHTGEKPYRCRECGKAFNHPATLFSHKKIHT
GEKPYKCDKCGKAFISSSTLTKHEIHTGEKPYKCEECGKAFNRSSNLTKHKRIHTGDVPYKCEECGKTF
TWYSSLSKHKRAHTGEKPYKCEECGKAFTAFSTLTEHKIHTGEKPYKCEECGKAFNWSSALNKHKKIHI
RQKPCIVKNVENLLNVPQLISIR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001099269

ORF Size: 1332 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.

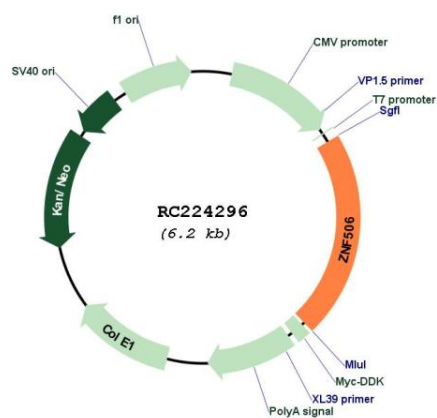
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001099269.1](#), [NM_001099269.2](#), [NP_001092739.1](#)

RefSeq Size: 3323 bp

RefSeq ORF:	1335 bp
Locus ID:	440515
UniProt ID:	Q5JVG8
Cytogenetics:	19p13.11
MW:	51.5 kDa
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC224296