

Product datasheet for **RC208080**

ZNF70 (NM_021916) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF70 (NM_021916) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF70
Synonyms:	Cos17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208080 ORF sequence, **codon optimized**.
 Due to the complexity of NM_021916, 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)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGAGGTACCACCCGCGACCAAGTTCGGCGAGACATTTGCTTTCGAGAATCGACTGGAGAGCCAGCAGG
 GCCTCTTCTGGTGAAGACTTGGGGGATCCCTTCTTGAAGAGAGAGGCCTGGAACAGATGGCCGTCAT
 TTATAAGGAGATACCCCTGGGGGAGCAAGATGAAGAGAATGATGACTACGAGGGAATTTTCCCTCTGC
 TCCAGCCCGTCCAGCATCAGAGTATCCCACCTGGCACCCGCCCTCAGGACGATGAGCTGTTGGCCAAA
 CATTTCTGCAAAAGTCCGACTTGTCTATGTGCCAGATTATTCATTAGAGGAGCCCTCCCCCTGTGATTG
 CGCCGAAACCGACAGAGGCGATTCTGGTCCAAACGCTCCTCATAGAACCCACAGCCGGCTAAACCATAT
 GCTTGTAGGGAGTGTGAAAAGCATTTCACAGAGTAGCCACCTCTTGCACACCTCGTGATACACACCG
 GAGAAAAGCCGTATGAGTGTGCGAGTGCAGGCAAGGCTTCTCCCAAAGTTCTCACCTGTGAGACACCA
 GATTATCCACACAGGCGAAAAACCTTACGAATGTCGGGAGTGTGGGAAGGCTTCCGGCAATCCTCTGCA
 TTGACACAACACCAGAAAATCCACACCGCAAGCGACCTTACGAATGTAGAGAGTGTGAAAAGATTTCT
 CTCGGAGCAGTTCTCTGCGCAAGCATGAAAGAATACACACCGGAGAGCGACCTACCAGTCAAAGAGTG
 TGGAAAAGTTTCAATCAGAGTTCGGCCCTGAGTCAGCACCGGAAGATCCACACGCTGAAAAGGCTCAT
 GAATGCGACTTGTGCGGAAAAGCCTTTTGCACCGCAGCCACTCATACGGCATCAGCGCATCCACACAG
 GAAAGAAGCCCTACAAGTGCAGCAATGTGCAAGGCATTCTCCAGAGCAGTAACCTGATTGAGCACAG
 GAAAACACACCGGAGAAAAACCTTATAAATGCCAGAAATGTGGCAAGGCTTCTCCAAAGCAGCTCC
 CTCATCGAACACCAGCGCATTACACAGGTGAGAAAACCTTACGAATGCTGCCAGTGCAGGCAAGGCTTCT
 GTCCTCTCAGCTCTGATACAGCACAGCGCATCCACACGGGTAAAGAGCCGTACACCTGCGAGTGCAGG
 CAAAGCTTTCAGGCACAGGAGTGCCTCATCGAACACTACAAAACACACACCAGAAAAACCTATGTA
 TGTAACCTGTGTGCAAGTCCTTAGGGGCAGTTCACATTTGATTCGCCATCAGAAGATTCACAGTGGT
 AGAAGCTT

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208080 representing NM_021916
 Red=Cloning site Green=Tags(s)

MEVPPATKFGETF AFENRLESQQGLFPGEDLGDPFLQERGLEQMAVIYKEIPLGEQDEENDDYEGNFSLC
 SSPVQHQSIPPGTRPQDDELFGQTF LQKSDL SMCQI IHSEEPSPCDAETDRGDSGPNAPHRTPQPAKPY
 ACRECGKAFSQQSHLLRHLVIHTGKPYECCECGKAFSQQSHLLRHQIIHTGKPYECRECGKAFRQSSA
 LTQHQKIHTGKRPYECRECGKDFSRSSLRKHERIHTGERPYQCKEKGKSFNQSSGLSQHRKIHTLKKPH
 ECDLCKGAFCHRSHLIRHQRIHTGKKPYKDECGKAFSQQSNLIEHRKTHHTGKPYKQKCGKAFSQQSS
 LIEHQRIHTGKPYECCQCGKAFCHSSALIQHRIHTGKKPYTCECGKAFRHSALIEHYKTHTREKPYV
 CNLCGKSFRRGSSHLIRHQKIHSGEKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_021916

ORF Size: 1338 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_021916.1](#), [NM_021916.2](#), [NM_021916.3](#), [NP_068735.1](#)

RefSeq Size: 6940 bp

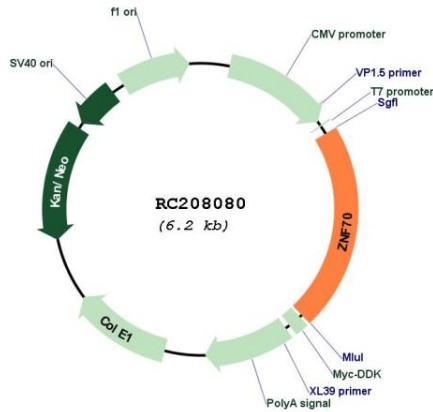
RefSeq ORF: 1341 bp

Locus ID: 7621

UniProt ID: [Q9UC06](#)

Cytogenetics: 22q11.23
 Protein Families: Transcription Factors
 MW: 50.8 kDa
 Gene Summary: May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC208080