

Product datasheet for **RC223619**

ZNF248 (NM_021045) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF248 (NM_021045) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF248
Synonyms:	bA162G10.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC223619 ORF sequence, **codon optimized**.
 Due to the complexity of NM_021045, 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**CGATCGCC**

ATGAACAAGAGTCAGGAGCAGGTTTCCTTCAAGGACGTCTGTGTGGACTTCACGCAGGAAGAATGGTACC
 TTTTGGATCCTGCCAGAAAATACTGTATAGGGACGTGATCCTGGAGAACTACTCAAATCTGGTAAGCGT
 AGGGTATTGCATCACAAGCCGGAAGTTATTTTCAAGATAGAGCAGGGCGAGGAACCCTGGATCCTGGAG
 AAGGGCTTTCCATCACAGTGTACCCAGAGCGGAAGTGAAGGTTGATGACGTGTTGGAAAGCTCCCAGG
 AAAATGAAGACGATCATTCTGGGAGCTTCTGTTCCACAATAACAAGACGGTTAGCGTGGAGAATGGCGA
 CAGAGGGAGTAAGACCTTAACTTGGGGACTGACCCAGTGAGTCTCAGAAATTACCTTATAAGATCTGT
 GACTCATGCGAAATGAATTTGAAAACTCTCCGGCCTTATAATCTCTAAGAAGAACTGCTCACGGAAGA
 AGCCAGACGAGTTCAACGTGTGCGAGAAGTTGCTGCTGGATATAAGACACGAGAAAATCCCTATTGGAGA
 AAAGAGTTACAAGTACGACCAGAAGCGAAATGCAATTAACCACCAGGACCTGTCTCAGCCAAGTTTC
 GGCCAGTCTTTGAATACAGCAAAAATGGACAGGGTTTTACGACGAAGCCGATTTTTTACCAACAAAC
 GAAGTCAGATTGGGAAACAGTGTGTAATATAACGAGTGGGACGGACTTTTATCGAGTCCCTGAAATT
 GAATATATCTCAAAGACCACACCTGGAGATGGAGCCATACGGCTGTTCAATCTGTGGCAAGTCTTTTGC
 ATGAACCTGAGATTTGGGCACCAACGCGCACTTACGAAAAGACAACCCATACGAGTACAACGAGTACGGGG
 AGATATTCTGCGACAACAGTGCCTTCATTATTCATCAAGGTGCATACACCCGGAAGATTCTGAGAGAGTA
 CAAAGTAAGTGATAAGACCTGGGAGAAGAGCGCCTTGCTGAAGCACAAATTGTCCACATGGGGGGTAAA
 TCTTACGATTACAACGAAAACGGAAGTAACTTTTCCAAGAAATCACACCTCACACAGCTTCGCCGGGCC
 ACACCGGCGAGAAAACCTTTGAGTGTGGGGAGTGGCGAAGACTTTCTGGGAGAAATCCAATCTGACTCA
 GCACCAACGGACTCATACCGGGGAGAAACCATATGAGTGTACGGAATGTGGAAAGGCATTCTGTGAGAAG
 CCCACCTACCAATCATCAGAGAACACATACAGGCGAGAAACCTACGAATGTAAGCAGTGTGAAAGA
 CATTTTGTGTGAAATCAAACCTCACTGAGCATCAAAGAACCATACAGGGGAGAAGCCATACGAGTGCAA
 TGCATGCGGCAAATCCTTCTGTACCGGAGCGCCTGACAGTCCACCAGCGAACGCATACGGGTGAGAAA
 CCATTCATCTGTAAACGAATGCGGCAAGTCACTTCTGTGTGAAGTCAAATCTCATTGTCCACCAACGCACTC
 ACACGGGTGAAAAGCCATATAAATGCAACGAATGTGGCAAGACCTTTTGTGAGAAGTCCGCTCTACCAA
 GCACCAGAGGACACACCGGTGAGAAGCCCTACGAATGCAACGCTTGGCGAAAGACTTTTAGCCAGCGC
 TCAGTTCTTACAAAACATCAGCGAATCCACACCAGAGTGAAGGCCCTGTCTACGAGT

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223619 representing NM_021045
Red=Cloning site Green=Tags(s)

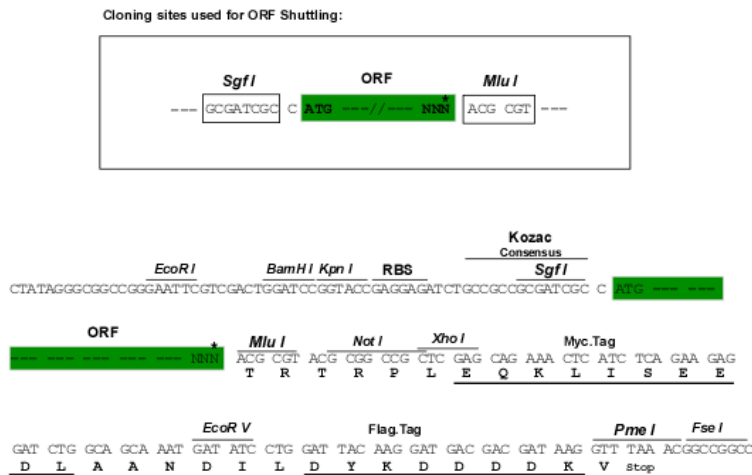
MNKSQEQVSFKDVCVDFTEEWYLLDPAQKILYRDVILENYSNLVSVGVCITKPEVIFKIEQGEEPWILE
 KGFP SQCHPERKWKVDDVLESSQENEDDHFWE L LFHNNKTVSVENGDRGSKTFNLGTD P VSLRNYPYKIC
 DSCEMNLKNISGLIISKKNCSRKKPDEFNVCEKLLLDIRHEKIPIGEKS YKYDQKRNAINYHQDL SQPSF
 GQSF EYSKNGQGFHDEAAFF TNKRSQIGETVCKYNECGRTFIESLKLNISQRPHLEMEPYGCSICGKSFC
 MNLRF GHQRALTKDNPYEYNEYGEIFCDNSAFI IHQGAYTRKILREYKVS DKTWEKSALLKHQIVHMGGK
 SYDYNENGSNFSK KSHL TQLRRAHTGEKTFECGECGKTFWEKS NLTQHQRTH TGEKPYECTECGKAF C QK
 PHL TNHQRTHTGEKPYECKQCGKTF CVKSNL TEHQRTHTGEKPYECNACGKSFC HRSAL TVHQRTHTGEK
 PFI CNECGKSFCVKS NLI VHQRTHTGEKPYK CNECGKTFCEKSAL TKHQRTHTGEKPYECNACGKTF SQR
 SVLTKHQRIHTRVKALSTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_021045

ORF Size: 1737 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_021045.1](#), [NM_021045.2](#), [NP_066383.1](#)

RefSeq Size: 5191 bp

RefSeq ORF: 1740 bp

Locus ID: 57209

UniProt ID: [Q8NDW4](#)

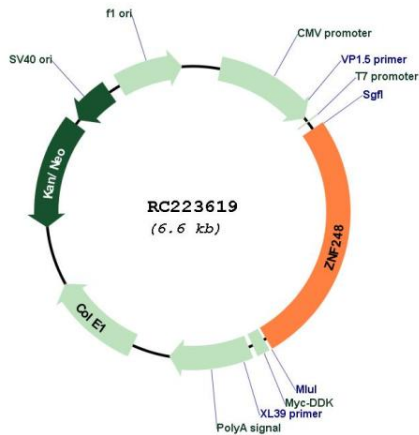
Cytogenetics: 10p11.21

Protein Families: Transcription Factors

MW: 67.1 kDa

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

Product images:



Circular map for RC223619