

Product datasheet for **RC201632**

ZNF416 (NM_017879) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF416 (NM_017879) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF416
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC201632 ORF sequence, **codon optimized**.
Due to the complexity of NM_017879, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGCCGCCGTTCTGCGGGACAGCACTAGTGTCCCGTCACAGCTGAGGCAAAGCTGATGGGCTTTA
 CTCAGGGCTGTGCACGTTTGAAGACGTAGCCATCTATTTAGTCAGGAGGAATGGGGACTGCTGGATGA
 GGCCCAAAGACTCCTTTATCGAGACGTGATGCTGGAGAACTTCGCACTTATCACAGCCCTGGTATGTTGG
 CACGGAATGGAGGACGAAGAGACTCCGGAACAGAGCGTAAGCGTCGAAGGGTCCCGCAAGTACGAACCC
 CCGAAGCTTCCCCAGCACACAAAAGATCCAGAGTTGCGACATGTGCGTGCCATTTCTCACAGATACT
 GCACCTGACTGATCTGCCCGGCCAGGAGCTTACTTGACGGGCGCATGTGCCGTGTTCCACCAGGACCAG
 AAGCACCCTCCGCTGAAAAGCCCTTGGAGTCCGATATGGACAAGGCTAGCTTTGTTCAATGTTGCCTTT
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 TCAGCCTCAGGCGATAGCCAATTACGAAAAACCAATAAGATATCTAAATGTGAGGAAGCTTTTACAGTG
 GGGATTAGCCACTACAAATGGTCCCAATGCAGAAGAGAGAGTTCCCATAAACATACTTTCTTTACCCTA
 GAGTTTGCACGGGCAAACGGCTGTACGAATCTAGCAAATGCGGAAAGGCATGCTGCTGCGAGTGTCCCT
 TGTGCAACTGCAGCGAGTGCACCCCGGAGAAAGCCCTATGAATGCTCAGAGTCCGGCAAGAGCTTTTCT
 CAGACATCCACCTGAACGACCACCGGAGAATCCACACAGGGGAAAGACCGTATGTGTGCGGACAATGCG
 GTAATCATTCTCCAGCGCGCAACCCTCATCAAGCACCATAGAGTGCACACAGGAGAGCGGCCGTACGA
 ATGTGGAGAATGCGGGAAGATTTCTCCAGAGTTCACACTGATCGAGCACTGTAGGATCCACACCGGG
 GAGCGCCATACGAGTGCAGAGTGCAGGCAAAGCTTTCCGCTCCAAGAGCACCCCTCGTGAACATCAA
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 GGTGGTGCACCAGAGGATCCACACAACCGCTCGGCCTTACGAATGTGGCAATGCGGTAAGTCTTCTCT
 CTGAAATGCGGGTTGATCCAGCACCAGCTTATCACTCCGGCGCCCGACCATTTGAGTGCATGAGTGG
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 GTGCGGAGAGTGCAGCAAAGCTTTCATGTTCAAGTCCAAACTGGTCAGACATCAACGACTCATACAGGC
 GAACGCCCTTCGAGTGCAGCAATGCGGCAAGTTTTTCCGCAAAGTTACACCTTGGTGGAGCATCAGA
 AAATTCACACTGGTCTGCGACCTACGACTGCGGTGAGTGCAGGAAAGTCTTTCATTGAGAAGAGTTCAC
 TATCCAGCATCAAGTGGTTCACACGGGAGAACGCCCTTATGAATGTGAAAGTGCAGGCAAGAGCTTACG
 CAGCATTCCGGACTTATCCTCCATCGGAAGAGTACACAGTGGAAAGGCCCGGAGATTCAAGCAAATGTG
 GGAAGCCCTACAGTCCAGATCTAATATTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201632 representing NM_017879
Red=Cloning site Green=Tags(s)

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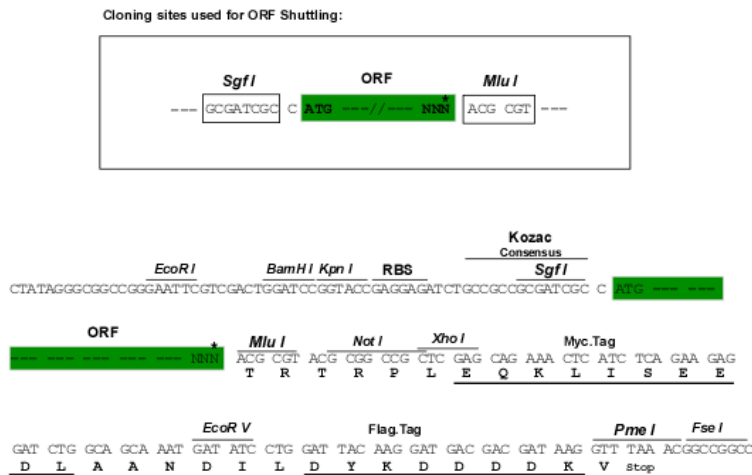
MAAAVLRDSTVSPVTAEAKLMGFTQGCVTFEDVAIYFSQEEWGLLDQAQRLLYRDVMLENFALITALVCW
HGMEDEETPEQSVSVVEGVPQVRTPEASPSTQKIQSCDMCVPFLLTDILHLTDLPGQELYL TGACAVFHQDQ
KHHSAEKPLESDMDKASFVQCCLFHESGMPFTSSEVKGDFLAPLGILQPQAIANYEKPNI SKCEAFHV
GISHYKWSQCRRESSHKHTFFHPRVCTGKRLYESKCGKACCCECSLVQLQRVHPGERPYECSECGKSFS
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ERPYECEDECGKAFGSKSTLVRHQRTHTGEKPYECGECGKLFQRQSFSLVHQRIHTTARPYECGQCCKSFS
LKCGLIQHQLIHSGARPFECDECGKSFSQRTTLNKHVKHTAERPYPVCGECGKAFMFKSKLVRHQRTHTG
ERPFECECGKFFRQSYTLVEHQKIHTGLRYPYDCGQCCKSFIQKSSLIQHVVHTGERPYECGKCGKSFT
QHSGLILHRKSHTVERPRDSSKCGKPYSPRSNIV
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_017879

ORF Size: 1782 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_017879.1](#), [NP_060349.1](#)

RefSeq Size: 2545 bp

RefSeq ORF: 1785 bp

Locus ID: 55659

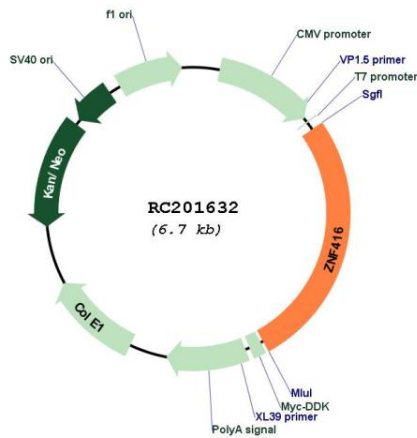
UniProt ID: [Q9BWM5](#)

Cytogenetics: 19q13.43

MW: 67.2 kDa

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

Product images:



Circular map for RC201632