

Product datasheet for **RC228315**

ZNF414 (NM_001146175) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ZNF414
Synonyms:	ZFP414
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC228315 representing NM_001146175
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGAGGAGAAACCTCAGGGCCCATCCCAGACATGCTGGCCACTGCAGAGCCAGCTCCAGTGAGACCG
ACAAGGAGGTGTTGTCCCGGCTGTGCCAGCTGCAGCCCTTCTCTCCATGTTCGAGGAGCCAGGCC
TGAGCAGGCAGCCACACCGCCAGTGTGGGAACGTGGAGGGCTGGAGGGATGCAGCAGGGCTCTCCCA
GCCCCAGACAGCTGCCAGCCTGGCCCCGACCCAGCCTGGCCTGACCAGCATAGTCTCCGGGACGCG
AGGACCTGCGGCCCTCCAGACGACGCCACCTCCAGGGAAGCAATCCCTTGCTCCAGCCCTGGCTGCTG
CCTCAGTTTTCCAGCGTCCGTGACCTGGCACAGCATCTGCGAACCCTGCCCCGCCACACAGTCCCTG
GAAGGCAAGCTCTCCGCTGCTCAGCCCTGAGCTGCACCGAGACCTTCCCAGCATGCAGGAGCTGGTGG
CTCACAGCAAAGTCACTACAAACCAATCGTACTTCAAGTGTGAGAACTGCCTCTGCGCTTCCGCAC
GCACCGCTCGCTCTTCAAGCAGCTGCATGTTTGCAGGAGCATGCGCAGAGCCAGCCCGCGCCACCC
CCGGCCCTGGACCGAGAGCCGCCCCGCGCGGAGCGCCCCCGGAGGTTGACCCCGCATCAGCGCCGGCC
TGCCGTTCCCGCTGCTGGAACCTTACGACCCCGCCCTGCCCCACCGGACCGTTCTGCCCTACTT
GAACCTGCGCCCTTTGGCTAAGCCCCCGCGCTGCGCCCTTCTGGCCGCTGCACCGGGCCGCGC
GCTTCCAGCGCCGCTGTGAAAAAGAGCCAAGGTGCTGGCAGCAGCCCCGAAGACCCAGGGCGGCT
CCGACGCGCCCTCAGGGCAGCGGCCCGGACCGCATCGTGTGGGAGCACACGCGCCGCTACTCGTG
CATGAGTGCCTTCTCCAGGCTCGCGGCCCGCCATGACCTGCACCTGGAGGACACCGCCCGCGC
GCCCCGCGGCCCGCGGCCCGCGCGCCCGACGCCCGCGGATCCGGCCCGCTGCACCCA
AGGTGTCGCGCTGCTGTCAGAGGGGAGCTTCCAGTGTCTCGCAGCTC

ACGCGTACGCGGCCGCTCAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



Protein Sequence:

>RC228315 representing NM_001146175

Red=Cloning site Green=Tags(s)

MEEKPSGPIPDMLATAEPSSSETDKEVLSPAVPAAAPSSSMSEEPGPEQAATPPVWERGGAGGMQQGSSP
APDSCQPGPGPSPLTSLVSGTSEDLRPPRRRPPPGKQIPCSPPGCCLSFPSVRDLAQHLRTHCPPTQSL
EGKLFRCALSCTETFPSMQELVAHSLHYKPNRYFKCENCLLRFRTHRSLFKHLHVCAEHAQSPAPPPP
PALDREPPAPERPPEVDPASAPGLPFLLPEFTTPAPAPTGPFLPYLNPAPFGLSPRLRPFLAAAGPP
ASSAAVWKKSQGAGSSPRRPQGGSDAPSGHAAPSRIVWEHTRGRYSCMQCAFSTASRPAMTLHLEDHRPG
APAAPAAGPPRPDAPADAPLAPKVSPLLSEGLPVFSQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

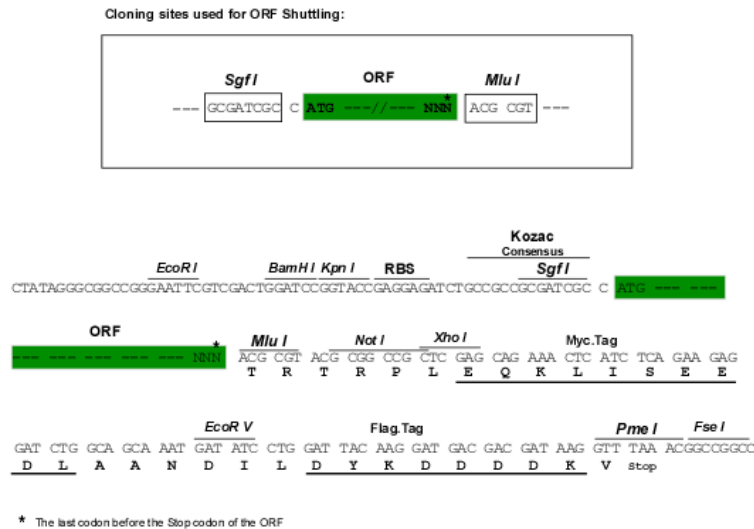
Chromatograms:

https://cdn.origene.com/chromatograms/mk8039_b10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001146175

ORF Size:

1170 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_001146175.2](#)

RefSeq ORF: 1173 bp

Locus ID: 84330

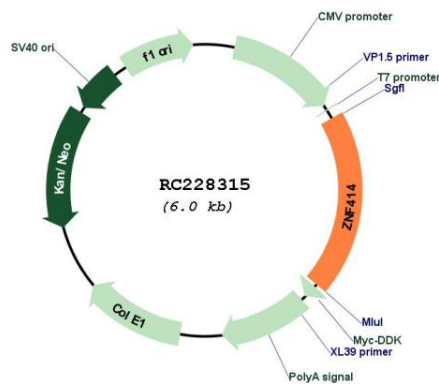
UniProt ID: [Q96IQ9](#)

Cytogenetics: 19p13.2

MW: 40.8 kDa

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

Product images:



Circular map for RC228315