

Product datasheet for **RG228315**

ZNF414 (NM_001146175) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF414
Synonyms:	ZFP414
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG228315 representing NM_001146175
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAGAAACCTCAGGGCCCATCCCAGACATGCTGGCCACTGCAGAGCCAGCTCCAGTGAGACCG
ACAAGGAGGTGTTGTCCCGGCTGTGCCAGCTGCAGCCCTTCTCTCCATGTTCGAGGAGCCAGGCCC
TGAGCAGGCAGCCACACCGCCAGTGTGGGAACGTGGAGGGCTGGAGGGATGCAGCAGGGCTCTCCCCA
GCCCCAGACAGCTGCCAGCCTGGCCCCGACCCAGCCCTGGCCTGACCAGCATAGTCTCCGGGACACGC
AGGACCTGCGGCCCTCCCAGACGACGCCACCTCCAGGGAAGCAATCCCTTGCTCCAGCCCTGGCTGCTG
CCTCAGTTTTCCAGCGTCCGTGACCTGGCACAGCATCTGCGAACCCTGCCCCGCCACACAGTCCCTG
GAAGGCAAGCTCTTCGCTGCTCAGCCCTGAGCTGCACCGAGACCTTCCCAGCATGCAGGAGCTGGTGG
CTCACAGCAAAGTCACTACAAACCAATCGTACTTCAAGTGTGAGAACTGCCTCTGCGCTTCCGCAC
GCACCGCTCGCTCTTCAAGCAGCTGCATGTTTGCAGGAGCATGCGCAGAGCCAGCCCGCGCCACCC
CCGGCCCTGGACCGAGAGCCGCCCCGCGCGGAGCGCCCCCGGAGGTTGACCCCGCATCAGCGCCGGGCC
TGCCGTTCCCGCTGCTGGAACCTTACGACCCCCGCCCTGCCCCACCGGACCGTTCTGCCCTACTT
GAACCTGCGCCCTTTGGCCTAAGCCCCCGCGCTGCGCCCTTCTGGCCGCTGCACCGGGCCGCGC
GCTTCCAGCGCCGCGCTTGGAAGAGGCAAGGTGCTGGCAGCAGCCCCGAAGACCCAGGGCGGCT
CCGACGCGCCCTCAGGGCAGCGGCCCGGACCGCATCGTGTGGGAGCACACGCGCCGCTACTCGTG
CATGAGTGCCTTCTCCAGGCTCGCGGCCCGCCATGACCTGCACCTGGAGGACACCGCCCGCGC
GCCCCGCGGCCCGCGGCCCGCGCGCCCGACGCCCCGCGGATCCGGCCCGCTTGACCCA
AGGTGTCGCGCTGCTGTCAGAGGGGAGCTTCCAGTGTTCGCGAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



Protein Sequence:

>RG228315 representing NM_001146175

Red=Cloning site Green=Tags(s)

MEEKPSGPIPDMLATAEPSSSETDKEVLSPAVPAAAPSSSMSEEPGEQAATPPVWERGAGGMQQGSSP
APDSCQPGPGSPGLTSLVSGTSEDLRPPRRRPPPGKQIPCSPPGCCLSFPSVRDLAQHLRTHCPPTQSL
EGKLFRCALSCTETFPSMQELVAHSLHYKPNRYFKCENCLLRFRTHRSLFKHLHVCAEHAQSPAPPPP
PALDREPPAPERPPEVDPASAPGLPFLLPEFTTPAPAPTGPFLPYLNPAPFGLSPRLRPFLAAAGPP
ASSAAVWKKSQGAGSSPRRPQGGSDAPSGHAAPSRIVWEHTRGRYSCMQCAFSTASRPAMTLHLEDHRPG
APAAPAAGPPRPDAPADAPLAPKVSPLLSEGELPVFSQL

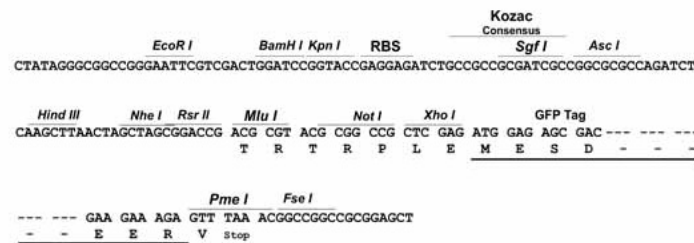
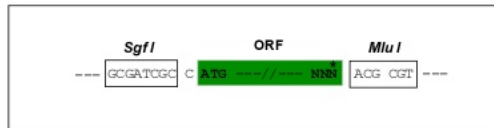
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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 Size: 1414 bp

RefSeq ORF: 1173 bp

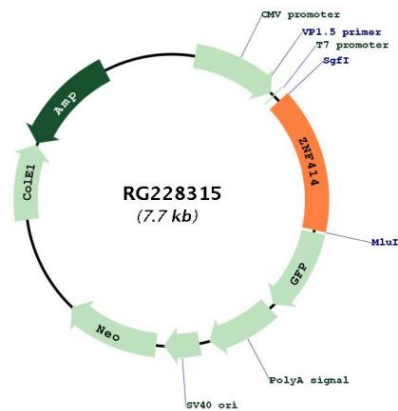
Locus ID: 84330

UniProt ID: [Q96IQ9](#)

Cytogenetics: 19p13.2

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

Product images:



Circular map for RG228315