

Product datasheet for **RG214484**

ZNF107 (NM_001013746) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF107
Synonyms:	smap-7; Y8; ZFD25; ZNF588
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214484 ORF sequence, **codon optimized**.

Due to the complexity of NM_001013746, 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**CGCATCGC**

ATGTTGCAAAACCCCGTCATGTCTTTCCATTTTGCTCAAGATCTGTGGCCGAGCAGAACATTAAG
ACTCCTTTCAAAAGTGACCTTGCGCGGTACGAAAGTGCGAGTACGAAATCTGCAGCTTCGAAAGG
CTGTAAGCAGCTGGATGAGTGTACCGGCCATAAAGCGGACACAACCGGTTAATCAGTGCCTGACCGCA
ACCCCTAGTAAAAATTTTCAGTGTAAATAACGTGAAAGTCTTCGACAAGTTCTCTAATTCGAATAGGT
ATAAGCGGAGGCATACAGGAAACAACTTCAAATGCAAAGAGTGCTCTAAGTCTTTCTGCGTTCTGAG
CCAGCTGACTCAGCATAGGAGAATACACACAAGAGTGAATAGTTATAAGTGCGAGGAATGCGGCAAGGCC
TTCAATTGGTTTAGTACCCTGACCAACACAAGAGAATCCATACTGGTGAAAAACCATATAAGTGCGAGG
AATGCGGGAAGGCATTCAACAGTCCAGTCAGCTGACCGGACACAAGATCATACACAGAAGAGAAACC
CAACAAGTGTGAAGAGTGCGGAAAGGCTTTCAAACAGGCATCTCATTGACTATCCACAAATCATCCAC
ACCGGTGAGAAGCCCTATAAATATGAAGAGTGCGGAAAGGTGTTCTCCAGTCTTCTCACCTGACAACTC
AGAAAATCTCCATACAGGTGAAAACCTTTATAAGTGAAGAGTGCGGAAAGCCTTCAATCTCTTCTC
CAATCTGACCAACCACAAAGGATCCACGCGGCGAGAAGCCTTATAAGTGCAAGGAGTGTGGCAGAGCA
TTCAATATCTCCTCCAATCTGAATAAACAGGAGAAGATCCATACGGGGGAAAGTTGAATAAGTGCGAAG
AATGTGACAAGGCCTTCAATCGCAGCTTGAAGTCACTGCCCAAGAAGATACTGATGGAAGAAAAGCC
GTACAAGTGTGAGGAGTGCGGAAAGGTCTTTAACCAGTTAGTACCTTGACCGGCACAAGATCATTCTAT
ACTGGGAGAAAGCATATAAGTGTGAAGGATGTGGAAGGCCTTTAACCAGAGCTTAACCTCACCGAAC
ATAAAAAATCCACACTGCTGAGAAAAGCTATAAATGTGAAGAGTGTGGCAAGGCATTCAATCAGCACTC
TAATCTGATTAACCAACCGGAAGATATACTCTGGTGAGAAGCCTTACAAGTGCGAGGAATGTGGCAAGGCC
TTCAATAGATCATCTACCCTGACGCGCCACAAGAAAATACATACGGGGGAGAAACCTATAAATGCGAGG
AGTGTGACAGAGCATTTAGCCAGAGTAGTAACCTCACAGAACATAAGAAGATCCACACCGCGGAAAAACC
CTATAAGTGCGAGGAGTGCGGGAAGGCCTTCAACCGATTTAGCACCTGACTAAGCATAAAAGGATCCAC
ACCGGGGAGAAGCCGTACAAGTGCGAGGAGTGTGGCAAGGCCTTCAATCAGAGTTACCAGCTGACTCGAC
ACAAGATAGTCCATACTAAAGAAAAGCTCAATAAATGTGAAGAGTTTGGTAAAGCCTTCAAGCAATCATC
CCACCGCACTATTCATAAGATTATCCACACAGGCGAAAAGCCCTACAAGTGTGAGGAACACGGCAAGGTG
TTCAACCACTCCTCAACCTCACACGCGAGAAGATTATTCATACCGGCGAGAATCTGTATAAATTCGAGG
AGCACGGGAAAGCTTTCAATCTCTTCTCTAATATTACTAACCACAAGATCATTATACAGGAGAGAAACC
CCACAAATGCGAGGAATGTGGGAAAGCCTATAACAGGTTTAGTAACCTTACGATACACAAAAGGATTCTAT
ACTGGAGAGAAACCTTACCAGTGTGCTGAATGCGGCAAGCATTTAATTGCTCATCCAGCTCAATCGCC
ATAAGATTATCCATACCGGGGAGAAGCCATACAAATGTAAGGAGTGCGGTAAAGCCTTTAATCTCTCCAG
CACCCTGACCGCCCATAAAGAAAATCCATACTGGTGAAGAACCATACAAGTGTGAAGAGTGCGGGAAGGCC
TTCAATCAGAGCAGCAACCTGACCACTCACAAAAAATCCACAGTCTGAAAAGCCTTATAAATGCGAAG
AATGTGGAATATTCATTCAACAGTTTACGAGCTGAATATTCACAAATCATTACACCGGCGAAAAGGCC
CTACAAGTGTGGGATTATGGACGAGCTTTAATCTTTCTAGCAATCTGACCACCCACAAGAAGATCCAT
ACGGGAGAGAAACCTATAAGTGCGAGTACGGCAAGACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214484 representing NM_001013746

Red=Cloning site Green=Tags(s)

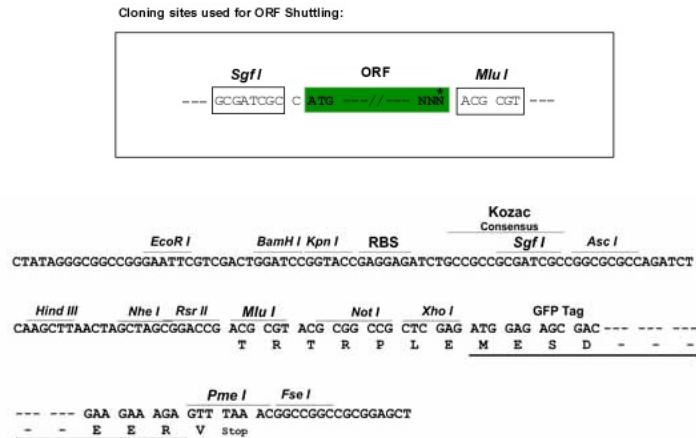
MVAKPPVMSFHFAQDLWPEQNIKDSFQKVTLLRRYGKCEYENLQLRKGCXHVDECTGHKGGHNTVNQCLTA
TPSKIFQCNKYVKVDFKFSNSNRYKRRHTGNKHFKCKECSKSF CVLSQLTQHRRIHTRVNSYKCEECGKA
FNWFSTLTKHKRIHTGEKPYKCEECGAFNQSSQLTRHKIIHTEEPKNKCEECGKAFKQASHLTIHKIIH
TGEKPYKYEECGKVFSSSHLTTQKILHTGENLYKCKEKGAFNLF SNLTNHNRIHAGEKPYKCKEKGRA
FNISSNLNKQEKIHTGGKLNKCEECDKAFNRSLKLTAKKKILMEEKPYKCEECGKVFNQFSTLTRHKIIH
TGEKPYKCKEKGAFNQSSNLTEHKKIHTAEKSYKCEECGKAFNQHSNLINHRKIYSGEKPYKCEECGKA
FNRSSLTRHKIHTGEKPYKCEECDFRFSQSSNLTEHKKIHTGEKPYKCEECGAFNRFTLTKHKRIH
TGEKPYKCEECGAFNQSYQLTRHKIVHTKEKLNKCEEFKAFKQSSRTIHKIHTGEKPYKCEEHGKV
FNQSSNLTTQKIIHTGENLYKFEEHGKAFNLF SNLTNHNKIIYTGEKPHKCEECGKAYNRFSNLTIHKRIH
TGEKPYQCAECGAFNCSSTLNRHKIHTGEKPYKCKEKGAFNLSSTLTAHKKIHTGEKPYKCEECGKA
FNQSSNLTTKKIHTSEKPYKCEECGKSFNQFSSLNIHKIHTGEKPYKCGDYGRAFNLSNLTTKKIHT
TGEKPYKCEYGT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001013746

ORF Size: 2349 bp

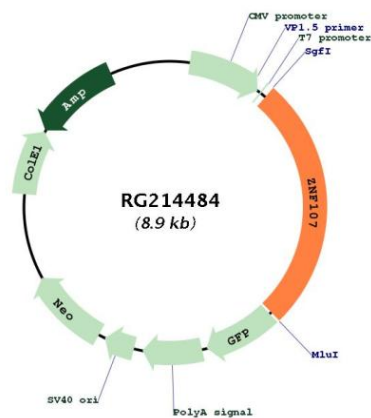
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001013746.1 , NP_001013768.1
RefSeq Size:	5845 bp
RefSeq ORF:	2352 bp
Locus ID:	51427
UniProt ID:	Q9UII5
Cytogenetics:	7q11.21
Protein Families:	Transcription Factors
Gene Summary:	This gene encodes a protein containing multiple C2H2-type zinc finger regions. Proteins containing zinc fingers may act as transcriptional regulators, but may also have other cellular functions. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG214484