

## Product datasheet for **RG224116**

### ZNF514 (NM\_032788) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF514 (NM_032788) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF514
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG224116 ORF sequence, **codon optimized**.  
 Due to the complexity of NM\_032788, 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)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACATTCGAAGACGTGGCAGTGGAGTTTTACAGTGGGAGTGGGGCCAGCTGAACCCGGCGCAGAAAG  
 ATCTGTATAGAGAAGTGATGCTGGAGAATTTCCGGAACCTGGCCATCCTGGGGCTGCTCGTAAGCAAACC  
 GTATGTGATCTGTCAGTTGGAGGAGGGAGGAGAGCCATTCATGGTGGAGAGAGATTAGCACCGGAGCC  
 CATAGCGACTGGAAGCGCCGGAGCAAGAGCAAGGAGTCTATGCCCTCCTGGGGCATTCTAAGGAGGAAC  
 TTTTTCAGGTTGTTTCCGTGGAGAAACACATACAGGACGTGCTGCAATTCAGTAAGCTCAAAGCCGCTG  
 CGGGTGTGACGGACAGCTTGAATGCAACAGATCAAACAAGAACGACACCTGAAGCAGATGTCTACAATT  
 CACAAAAGCGCTACCACTCTGTCTAGAGATTACAAATGGAATGGCTTTGGCAGGAGTCTGGGACTGCGAT  
 CAGTGTGGTCAATCAACTCCATCCTCATGGGTGAAGGGAGCTATAAATGCGATACAGAGTTCAGGCA  
 GACTGGGTGGAACAATCCCAGCGAACCCACCCGAAAAAAGAGTTGTAAGTGAACGAATGCGGC  
 AAAAGCTTCCATTTTCAGTCTGAGCTGCGGCGCACAGAGGTGCCACTGGAGAAAAACCATACGAGT  
 GCTCAGATTGGCCGGCGTTTGGTCACATCTCATCTGATCAAACACCAGAGGACACACCCGGCGA  
 AAAGCTTACGAATGCTCAGAATGCGGCAGGGCCTTTTACAATCCAGCTCACTGGTGTCTCATTACCGG  
 TTCCACACGGGGGAAAAACCGTACAAGTGAATGAGTGTGGGAGGGCCTTTGGTCATACCTCTAGTCTCA  
 TCAAGCACCAACGCACTCACACTGGCGAGAAGCCATATGAGTGCAGGGAATGCGGAAGGACTTTTTTACA  
 GTCTTCCAGTCTGATCGTGCATTACAGATTTTACACAGGCGAGAAACCATATAAGTGAATAAATGCGGA  
 CGAGCTTTTTACAGTCACTCAGCTTGACACAGCACTACAGATTCATACAGGAGAAAAGCCTTACAAGT  
 GCAATGAGTGGGGAGAGCATTGCCCCACTGCTTCTCTATCAAGCATCAAAGAAGCCACGCTGGGAA  
 GAAAAACTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG224116 representing NM\_032788  
 Red=Cloning site Green=Tags(s)

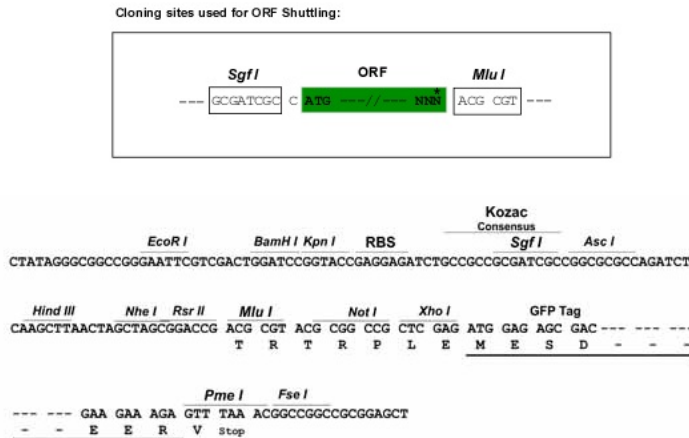
MTFEDVAVEFSQWEWQLNPAQKDL YREVMLENFRNLAILGLLVSKPYVICQLEEGGPEPFMVEREISTGA  
 HSDWKRRS KSKESMP SWGISKEELFQVVSVEKHIQDVLQF SKLKAACGCDGQLEMQQIKQERHLKQ MSTI  
 HKSATTL SRDYK WNGFGRSLGLRSVLVNOHSILMGE GSYKCDTEFRQTLGGNNSQRTHPEKKSCKNECG  
 KSFHFQSELRRHQ RCHTGEKPYECSDCGRAF GHISL IKHQ RTHTGEKPYECSECGRAF SQSSSLVLHYR  
 FHTGEKPYKNECGRAF GHTSSL IKHQ RTHTGEKPYECRECGRTFSQSSSLIVHYRFHTGEKPYKCNKCG  
 RAFSQSSSLTQH YRFHTGEKPYKNECGRAF AHTASL IKHQ RSHAGK KTL

**TRTRPLE** - GFP Tag - V

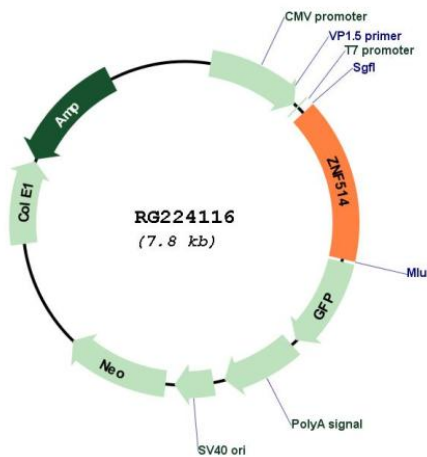
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_032788

ORF Size: 1200 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\\_032788.1](#), [NP\\_116177.1](#)

**RefSeq Size:** 6189 bp

**RefSeq ORF:** 1203 bp

**Locus ID:** 84874

**UniProt ID:** [Q96K75](#)

**Cytogenetics:** 2q11.1

**Domains:** KRAB, zf-C2H2

**Protein Families:** Transcription Factors

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