

Product datasheet for **RG214765**

zinc finger protein 112 (ZNF112) (NM_001083335) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	zinc finger protein 112
Synonyms:	ZFP112; ZNF228
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214765 ORF sequence, **codon optimized**.

Due to the complexity of NM_001083335, 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**CGATCGC**

ATGACTAAATTCAGGAGATGGTCACCTTTAAAGACGTAGCCGTAGTGTTTACCGAGGAGGAGCTGGGAC
TCCTCGATTCTGTGCAGAGGAAGCTCTACAGGGACGTGATGCTGGAGAATTTCCGGAACCTCCTGCTGGT
GGCCACCAGCCTTTCAAGCCAGATCTGATAAGTCAGCTCGAGAGGGAGGAGAAGCTGCTCATGGTGGAG
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CCGGTGCCAAGATTTCTTAAAGTGTTTCAGGGCAAAAACCTCCAGCTGCAAGAACAAGGGAATTCCTT
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GATTCTGTATCTTGCTGAGCCACCATAATGACAACTCGAAGTCCACCGCAAGGAGAATTACAGCTGCC
ACGATTGCGGTGAGGATATCATGAAAGTTAGCCTGCTCAATCAGGAGTCTATTCAAACCGAGGAGAAACC
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CTCATTCACACTGGTGAGATGTCTTATAGACACAACATCTACGAAAAGGCCTTCTCCACTCTTTGGACC
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ACGCTGCGGTAAAGGGTTCGGTGGAGTAGCGGCTTCTTATTATCAGAGAGTGAAGTCAAGTGACAA
GTTCTACAAAAGCGAGGACTATGGAAGAGACTACCGTCCAGCGAAAACTCCATCGCAATGAGGACTCA
GTGCTGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214765 representing NM_001083335

Red=Cloning site Green=Tags(s)

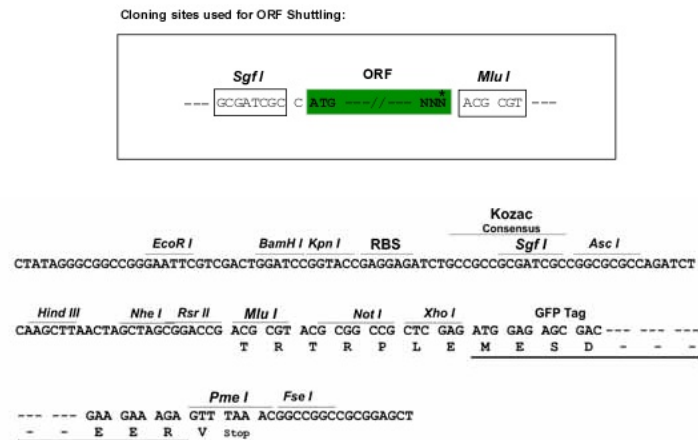
MTKFQEMVTFKDVAVVFTEELGLLDSVQRKLYRDVMLENFRNLLLVAHQPFKPDLSQLEREKLLMVE
TETPRDGCGRKNQKQKESIQEVTVSYPKELSSRQTWQSQAGGLIRCQDFLKVFQKNSQLQEQNSL
GQVWAGIPVQISEDKNYIFTHIGNGSNYIKSQGYPSWRAHHSWRKMYLKESHNYQCRCQQISMKNHFCCK
DSVSWLSHNDKLEVHRKENYSCHDCGEDIMKVSLLNQESIQTTEKPYCTGYRKAFSNDSSSEVHQQFH
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LIHTGEMSYRHNIEKAFSHSLDLNSIFRVHTRDEPHEYEENENVFNQSSCLQVHQKIHTTEKLYTDIEY
GKSFICSSNLDIQHRVHMEENSYNSEECGNGFSLASHFQDLQIVHTKEQPYKRYVCSNSFSHNLVLQGHF
KIHIGEKPRKEHGNGFNWSSKLDHQVRHTGQKPYKCNICGKGFNHRSVLNVHQVRVHTGEKPYKCECDK
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SFSQRSYLQSHQSVHGERPYICEVCGKGFQRAYLQGHQVRVHTKPYKCEMCGKGFSSSRLEAHRV
HTGGKPYKCEVCTKGFSESSRLQAHQVRVHTGRPYKCECGKGFSGYSSLQAHHRVHTGEKPYKCEVCGK
GFSQRSNLQAHQVRVHTGEKPYKCDACGKGFWRSSGLLIHQVRVHSSDKFYKSEYDGKDYPSSENLRNEDS
VLF

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

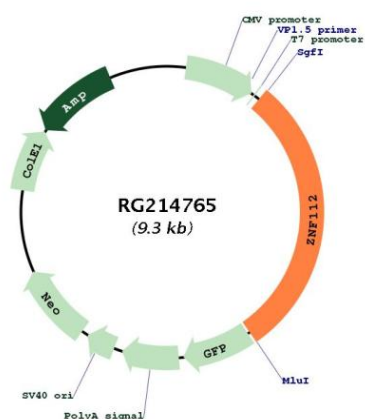
NM_001083335

ORF Size:

2739 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_001083335.1 , NP_001076804.1
RefSeq Size:	3737 bp
RefSeq ORF:	2742 bp
Locus ID:	7771
UniProt ID:	Q9UJU3
Cytogenetics:	19q13.31
Protein Families:	Transcription Factors
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214765