

Product datasheet for **RG223565**

ZNF257 (NM_033468) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF257 (NM_033468) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF257
Synonyms:	BMZF-4; BMZF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG223565 ORF sequence, **codon optimized**.
 Due to the complexity of NM_033468, 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)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGGACCCCTTACCATCCGGGATGTGACAGTTGAATTCTCACTGGAAGAATGGCATTGTCTCGATACTG
 CCCAGCAGAACCTGTATCGAGATGTCATGTTGGAGAACTACCGAAATCTGGTTTTCTGGGTATTGCAGT
 GAGCAAACCTGATCTCATTACATGCTTGGAGCAGGGCAAGGAGCCGTGTAATATGAAAAGACACGAAATG
 GTTGCAAAACCACCAAGTCATGTGTTACACATCGCGGAGGACCTTTGCCAGAGCGCGACATTAAGTATT
 TCTTCCAGAAGGTAATACTGAGGAGATATGACAAATGTGAACACGAAAACCTCCAGCTCAGGAAGGGATG
 CAAGAGTGTGGATGAATGTAAGGTCTGCAAGGGCGGTTACAACGCGCTGAACCAATGTCTTATTACGACT
 CAGAGTAAATGTATCAGTGTGACAAATACGTCAAAGTCTTTACAAGTTTAGCAATTCGACCGCCACA
 AAATAAGGCACACTGAAAAGAAGACCTGTAATGTAAAGGAATGTGGCAAAAGCTTCTGTATGCTCAGCCA
 GCTTACCAGGCATAAACGAATACATATTCGAGAGAATAGTCACAAGTGCGAGGAATGTGGAAGGCTTTT
 AATCAGAGTTCGCGATTGACACGGCACAAGATGACACATACAGGTGAGAAGCCGTATAAGTGTGAGGAGT
 GCGGGAAGGCATTTAACCGCTCCTCTCACCTGACTCAACACAAAGTTATCCACACAGGAGAAAAGCCGTA
 TAAGTGCGAAGAATGTGGCAAGGCCTTCAATAGGAGCTCTCACATTACCAACATAAGCGGATCCATAAT
 CGGGAGAAGCCCTTTAAATATGATGAGTGCTGCAAGGCCTTCAAGTGGAGTTCAGCTCTGACTACACTGA
 CACAGCACAAGCGGATCCATACCGGGGAGAAGCCATACAAATGCGAAGAATGCGGTAAGGCATTCAATCA
 GTCTTCAGCTCTGACCAGGCACAAGATGATCCACACCGGAGAGAAAACCTTTCCAGTGTGAGGAGTGTGGG
 AAGGCATTTAATCGAAGTAGCCACCTGACTCAGCACAAAATTATCCATACAAAAGAAAAACCGTACAAGT
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 CACAAGATCATCCATACAGGTGAGAAGCCCTACAAGTGCAGGAATGTGGCAAAGCATTTAACCGGTCTT
 CTTACCTGATTAGACATAAAATCATCCACACAGGGGAGAAGCCCTACAAGTGCAGAGAGTGCAGGCAAGGC
 CTTCAATCAGTCCAGCCACCTCACGCAGCATAAGATCATCCACACAGGAGAAAAGCCATACAAGTGTGAA
 GAATGTGGAAGGCTTTCAATCGGAGCTCACATCTCTCACAGCACAAGATCATCCATACGGGGGAGAAGC
 CTTATAAGTGTGAGGAGTGTGGAAGGCCCTTTAACCGATTCTCCTACCTGACCGTCCATAAAGGATCCA
 TGCCGGAGAAAACCCCAACAAGTATGAGGAATGTGGGAAAGCCTGCAATCATTCTTCAACCTTACTAAA
 CATAATAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG223565 representing NM_033468
 Red=Cloning site Green=Tags(s)

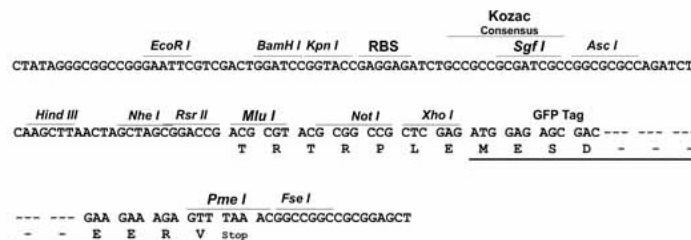
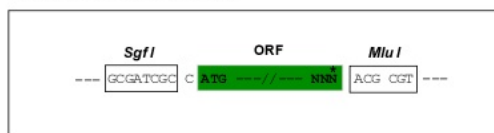
MGPLTIRDVTVEFSLEEWHLCLDTAQQLYRDVMLENYRNLVFLGIASVSKPDLITCLEQGKEPCNMKRHEM
 VAKPPVMCSHIAEDLCPERDIKYFFQKVLRRYDKCEHENLQLRGCKSVDECKVCKGGYNGLNQCLITT
 QSKMYQCDKYVKVFYKFNSDRHKIRHTEKKTCKCKEKGKSFCLSQLTRHKRIHIRENSHKCEECGKAF
 NQSSALTRHKMTHTGEKPYKCEECGKAFNRSSHLTQHKVIHTREKPYKCEECGKAFNRSSHLTQHKRIHN
 REKPFKYDECKAFKWSALTTLTQHKRIHTGEKPYKCEECGKAFNRSSALTRHKMIHTGEKPFQCEECG
 KAFNRSSHLTQHKIHTKEKPYKCEECGKAFNRSSHLTKHKRIHTREKAYKCEYCKAFNWSSALTTLTQ
 HKIHTGEKPYKCEECGKAFNRSSYLIRHKIHTGEKPYKCEECGKAFNRSSHLTQHKIHTGEKPYKCE
 ECGKAFNRSSHLTQHKIHTGEKPYKCEECGKPFNRFSYLVHKRIHAGENPNKYEECGKACNHSSNLTK
 HNS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_033468

ORF Size: 1689 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_033468.2](#), [NP_258429.2](#)

RefSeq Size: 3550 bp

RefSeq ORF: 1692 bp

Locus ID: 113835

UniProt ID: [Q9Y2Q1](#)

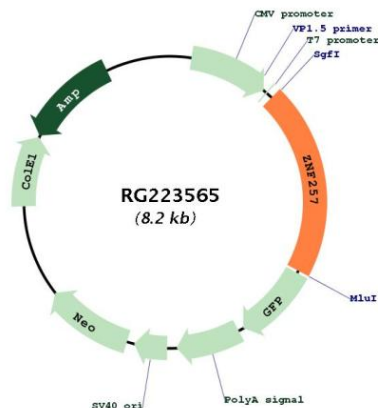
Cytogenetics: 19p12

Domains: KRAB, zf-C2H2

Protein Families: Transcription Factors

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

Product images:



Circular map for RG223565