

Product datasheet for **RG207567**

ZNF443 (NM_005815) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF443 (NM_005815) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF443
Synonyms:	ZK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207567 ORF sequence, **codon optimized**.
 Due to the complexity of NM_005815, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**

ATGGCATCCGTGCGACTCGAGGATGTTGCCGTTAATTTTACCGCGAAGAATGGGCTCTGCTGGGACCTGCCAGAAAACCTGTACAAGGACGTTATGCAGGAAACGATCCGGAATCTGGACTGTGTCGTCATGAAGTGAAAGATCAGAACATTGAAGATCAGTACCGGTATCCACGGAAGAATCTCAGATGCAGAATGCTGGAGCGCTTCGTTGAGTCCAAGGACGGGACCCAGTGCAGGCGAAACCAGTCCAGATACAAGACTCCATCGTCACTAAAACACCCTGCCCGGGGTTGGCCCTTGCGAATCATCCATGCGGGCGGAGAAAAGTAAATGGCCATAGCTCATTTGAAGTGTATACGGGTGGGCGCGGGCCATAAGCCCCACGAGTATCATGAGTGTGGAGAAAAACCA GACACGCACAAGCAGCGCGGCAAAGCTTTTTCCTATCATAATAGCTTTTCAGACTCACGAACGGCTGCACACCGGAAGAAACCGTATGATTGCAAGGAATGCGGGAATCATTACGCTCCCTGGGAAACCTCCAGCGGCATGGCCGTCCAACGGGGAGATGGGCCATAAATGCAAACGTGCGGCAAAGCATTCTTCTGGCCATCCCTTCTGCATATGCAGGAGAAACCCACACAGGCGAAAAACCTTACGAGTGCAAGCAATGCAGCAAGGCCCTCTCATTTTACAGTAGCTATCTTCGCCACGAGCGGACCCATACCGGCGAAAAACCTTATGAATGCAAGCATGCAGCAAAGCCTTTCCGTTTTACAGCAGCTACCTGCGCCACGAAACGCACTCATACCGGGAGAAACCGTACAAAATGCAAACAATGCAGCAAGGCCTTTCTGATTCAAGCTCTTGTCTTATTACGAGCGAACTCACACAGGGGAAAAACCTTACACCTGCAAACAGTGCAGCAAGGCCTTCTCTGTGTCTGGGTCACTCCAAAGGCA CGAAACTACACTCCGCTGAAAAGCCATACGCCTGTCAACAGTGTGGAAAGCCTTTACCATCTGGGTAGCTTTCAGCGCCATATGATCAGGCACACGGCAATGGACCGCATAAGTGCAAGATTTGCGGCAAAGGCTTTGATTGTCTTCTAGTCTCCAGTCCCACGAGAGAACCCATACAGGGGAGAAAGCCCTATGAGTGCAAAACAATGCGGTAAAGGCTCTCTCCACCGGAGCTCTTTTCGCAGCCACATGATAATGCATACTGGTGACGGGCCCCACAAATGCAAGGTTTGTGGTAAAGCGTTCGTCTATCCTTCTGTGTTCCAGCGGCATGAGAGAACACACACCGCCGAGAAGCCCTACAATGCAAACAGTGTGGCAAGGCTTACCGCATTAGCTCCAGCCTGAGGAGGCA CGAGACAACCTCACACAGGGGAAAAAGCCTTACAAGTGCAAGCTGGGCAAGGCCTTCATCGATTTCTGCTCATTTTCAGAACCAAGACGACTCACACTGGCGAAAAAGCCATATGAATGCAAGGAGTGCAGGCAAGGCCTTTAGCCGATTCGATACCTCTCACGACAAAAAGGCCACACAGGGGAGAAACCCCTACGAGTGCAAAACATGTCGGAAAGCCTTTGGACTACGACAACCTGAAGGTTTCATGAAAGAATACATAGTGGTGAGAAACCCATGAGTGCAAGGAGTGCAGGAAAGCCTTTCTCTTGGCTGACCTGTTTCTCAGACACGAAACGCATTTCATATGAGAGAAAAGTCTTATGAGTGCCCGCAGTGTGGCAAGGCGTTTACACATTCAAGATTTTTCAGGACATGAGAAAACCCATACGGGAGAAAACCCATATGAGTGTAAAGAATGTGGAAAGGCGTTCCGCTCCCTGAGTAGTCTGCACCGACACAAGAAGACACACTGAAAAAGACGCACACCGGGGAGAAATCCTTACGAATGTAAGAGTGCAGGCAAAGCCTTTGCCTCACTCAGCAGCCTCCACCGCCACAAGAAAACCTCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207567 representing NM_005815
Red=Cloning site Green=Tags(s)

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MASVALEDVAVNFTREEWALLGPCQKNLYKDVMTQETIRNLDCVVMKWKDQNIEDQYRPRKNLRCRMLER
FVESKDGTOCGETSQIQDSIVTKNTLPGVGPCESSMRGEKVMGHSSLNCYIRVAGAGHPHEYHECGEKP
DTHKQRGKAFSYHNSFQHTERLHTGKKPYDCKECKGKSFSSLGNLQRHMAVQRGDGPYKCKLGGKAFWPS
LLHMHRTHTGEKPYECKQCSKAFSFYSSYL RHERHTHTGEKPYECKQCSKAFPFYSSYL RHERHTHTGEK
YKCKQCSKAFPDSSSLIHERHTHTGEKPYTKQCGKAFSVSGSLQRHETTHSAEKPYACQCGKAFHHLG
SFQRHMIRHTGNPHKCKICGKGFDCPSSLQSHERTHTGEKPYECKQCGKALSHRSSFRSHMIMHTGDGP
HKCKVCGKAFVYPSVFQRHERHTHTAEKPYKCKQCGKAYRISSSLRRHETHTHTGEKPYKCKLGGKAFIDFCS
FQNHKTTHTGEKPYECKECKGKAFSRFRYLSRHKRTHHTGEKPYECKTCRKAFGHYDNLKVHERIHSGEKPY
ECKECKGAFSWLTCFLRHERIHMREKSYECPQCGKAFTHSRFLQGHEKTHHTGENPYECKECKGKAFASLSS
LHRHKKTHWKKTHHTGENPYECKECKGKAFASLSSLHRHKKTH
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005815

ORF Size: 2013 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_005815.2](#), [NP_005806.1](#)

RefSeq Size: 2573 bp

RefSeq ORF: 2016 bp

Locus ID: 10224

UniProt ID: [Q9Y2A4](#)

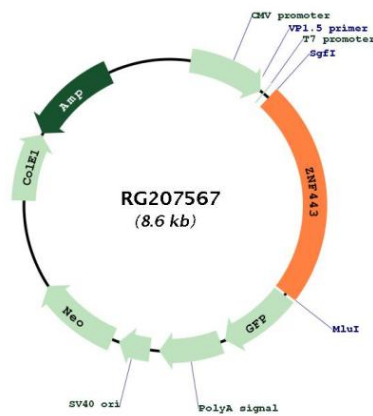
Cytogenetics: 19p13.2

Domains: KRAB, zf-C2H2

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: Zinc finger proteins (ZNFs) bind DNA and, through this binding, regulate gene transcription. Most ZNFs contain conserved C2H2 motifs and are classified as Kruppel-type zinc fingers. For a general description of these proteins, see ZNF91 (MIM 603971).[supplied by OMIM, Jul 2002]

Product images:



Circular map for RG207567