

Product datasheet for **RG239170**

ZNF143 (NM_001282656) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF143 (NM_001282656) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF143
Synonyms:	pHZ-1; SBF; STAF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239170 representing NM_001282656.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGTTGTTAGCCCAAATAAATCGAGATTCTCAGGAATGACAGAGTTTCTGGAGGAGGGATGGAGGCC
CAACATGTTACGCTGTGCTTGACAGAGGCAGTCACCGTGGCAGATGGTGACAACCTTAGAAAAATGGAA
GGCGTAAGCTTGCAAGCAGTAACACTTGCAGATGGTTCTACTGCTTACATACAACACAATTTAAAGAT
GCAAAACTCATAGATGGCCAGGTCATTCAGTTGGAAGATGGTTCTGCGGCCTATGTTCAACATGTACCC
ATACCTAAAAGTAGGGACAGTTTGCCTAGAGGATGGTCAAGCAGTACAGTTAGAAGATGGTACCACA
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GGTACCACAGCTTATATCCACCATGCAGTGCAAGTCCCGCAGTCTGACACCATCTTGCAATTCAGGCT
GATGGGACAGTGGCAGGCTGCACACTGGGGATGCTACAATTGACCTGACACCATCAGTCTTTGGAA
CAGTATGCAGCAAAGGTGCCATTGATGGAAGTAAAAGTGTAGCAGGACTGGAATGATTGGAGAAAAT
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AGTGGAGAGAAGGCATTTTCGATGTGAATATGATGGATGTGGAAAATTATATAACAACAGCTCATCATCTC
AAGGTCCATGAGAGGTCACACACAGGAGATCGGCCTTATCAGTGTGAGCATGCAGGCTGTGGGAAGGCA
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GAAGATAATTGTACTAAATCTTTCAAACCTTCAGGAGATCTACAGAAAACATCAGAACCTCATACAGGA
GAAAGGCCCTTAAGTGTCCCTTCGAAGGCTGCGGTGCGTCTTTACAACATCAAATATCAGAAAAGTG
CACGTTAGGACACACACAGGAGAAAGACCTTATTACTGCACAGAGCCAGGATGTGGGAGGGCATTGCC
AGTGCACAATAATATAAAAAACATGTGAGGATACACACAGGAGAAAAGCCATATGTTGTACAGTCTCC
GGTGTGACAAAAGGTTTACAGAATATCCAGTTTGTACAACATCATGTTGTCCACATTTCCAAA
CCTTACAACGTAAACACTGTGGGAAGACATAACAAGCAGATCTCCACGCTGGCCATGCACAAAACGGACA
GCCCAACACGACTGAGCCCATCGAGGAGGAGCAGGAAGCCTTCTTTGAGCCGCCCCAGGTCAAGGT
GAAGATGTTCTTAAAGGTCAGATTACGTATGTTACAGGTGTAGAAGGGGACGACGTTGTTTCTACA
CAAGTAGCCACAGTAACCAATCTGGACTGAGTCAACAAGTTACTCATATCCAGGATGGGACTCAG
CATGTCAACATATCTCAAGCTGACATGCAGGCCATTGGCAACACCATCACAATGGTAACGAGGATGGC
ACGCCCATCACAGTCCCCGCCATGATGCAGTCTCTCCTCAGCAGGAACGCACTCTGTTGCTATGGTT
ACTGCTGAGGGTACAGAAGGGGAACAGGTTGCAATTGTAGCTCAAGACTTGGCAGCATTCCATACTGCC
TCATCAGAAATGGGACACAGCAGCATAGCCATCACTTAGTAACCACAGAAACCAGACCTCTGACCTTA
GTAGCAACATCCAATGGCACCCAGATTGCAGTTGAGCTTGGAGAACAGCCATCTCTGGAAGAAGCCATC
AGAATAGCGTCTAGAATCCAACAAGGAGAAACGCCAGGTTGGATGAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:

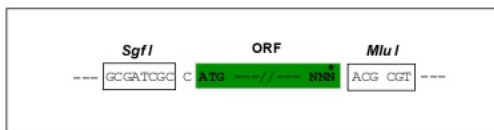
>Peptide sequence encoded by RG239170
 Blue=ORF Red=Cloning site Green=Tag(s)

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MLLAQINRDSQGMTEFPGGGMEAQHVTLCLTEAVTVADGDNLENMEGVSQAVTLADGSTAYIQHNSKD
AKLIDGQVIQLEDGSAAYVQHVPKSRSLRLEDGQAVQLEDGTTAFIHHTSKDSYDQSAQAVQLED
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EQEKKMQIVLQGHATRVTAKSQSGEKAFRCEYDGCGLYTTAHLKVVHRSHTGDRPYQCEHAGCGKA
FATGYGLKSHVRTHTEKPYRCSNCTKSFKTSGLDQKHIRTHTGERPFKPFEGCGRSFTTNSIRKV
HVRTHTEKPYRCEYDGCGLYTTAHLKVVHRSHTGDRPYQCEHAGCGKA
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RIASRIQQGETPGLDD
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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                                Kozac
                                Consensus
                                Sgf I      Asc I
EcoR I      BamH I Kpn I      RBS      Sgf I      Asc I
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

Hind III      Nhe I Rsr II      Mlu I      Not I      Xho I      GFP Tag
CAAGCTTAAGTACTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC GAG  ATG GAG AGC GAC ---
                                  T   R   T   R   P   L   E   M   E   S   D   -   -   -

                                Pme I      Fse I
--- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT
-  -  E  E  R  V  Stop

```

ACCN: NM_001282656

ORF Size: 1911 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).

RefSeq: [NM_001282656.1](#), [NP_001269585.1](#)

RefSeq Size: 2960 bp

RefSeq ORF: 1914 bp

Locus ID: 7702

UniProt ID: [P52747](#)

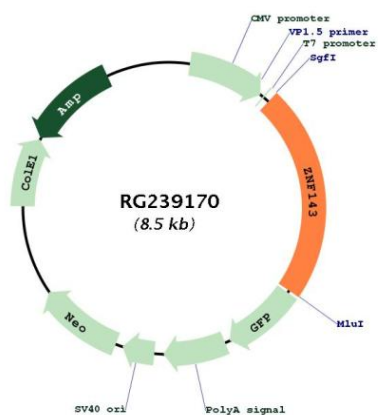
Cytogenetics: 11p15.4

Protein Families: Transcription Factors

MW: 69.3 kDa

Gene Summary: Transcriptional activator. Activates the gene for selenocysteine tRNA (tRNA^{Sec}). Binds to the SPH motif of small nuclear RNA (snRNA) gene promoters. Participates in efficient U6 RNA polymerase III transcription via its interaction with CHD8.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG239170