

Product datasheet for **RG223391**

ZNF33B (NM_006955) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF33B (NM_006955) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF33B
Synonyms:	KOX2; KOX31; ZNF11B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG223391 ORF sequence, **codon optimized**.
 Due to the complexity of NM_006955, 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)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGAACAAAGTCGACCAGAAATTCAGGGAAGTGTGAGTTTCAAGGACGTACCGTTGGATTACACAGG
 AAGAGTGGCAACACCTCGATCCAAGTCAGCGGCCCTGTACAGAGACGTGATGCTGGAAACTACAGTAA
 TCTTGTATCTGTGGTTACTGCGCTCACAAGCCGAAGTTATCTCCGCCTCGAGCAGGGGAAGAGCCT
 TGGCGGCTGGAAGAGGAGTTCCCTCACAGAGCTTTCCGAGGTATGGACGGCTGACCATCTGAAAGAGA
 GAAGCCAGGAAAACCAATCCAAACATCTGTGGGAGGTCGTGTTCAATAACGAGATGCTGACGAAAGA
 ACAGGGCAACGTGATTGGCATACCATTTAACATGGATGTGTCAAGCTTCCCTCCAGAAAGATGTTCTGT
 CAGTATGACAGCAGGGGCATGTCATTCAACACCGTTTCCGAGCTGGTGATTTCCAAATTAATTACCTTG
 GAAAGAAGTCTGACGAGTTTAATGCGTGCAGTAACTGCTGCTCAATATTAACATGACGAAACACACAC
 CCGAGAGAAGAATGAAGTGTGAAAAACAGGAATACCTCTCCATCGAGAAAATACCCTGCAGCATGAG
 AAAATTCAGACCTGGATCATACTTCGAATACAGTATTTGCCAGGAAACCTGCTGGAGAAAGCAGTCT
 TCAACACCAGAAAGCGGGAAGTCCGAGGAGAACAACGCGACTACAATGAGTTTGAAGAAGCTTTCTG
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 GAAAAGTTCCTCTGTGTTAAGTCTACCCTGTCAAAGCACGATGGTGTGCCAGTGAAGCACTATGACTGTG
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 CACACCGGTGAGAAACACTTTCAATGTAAACAGTGCAGAAAGACATTTTGGGAGAAAAGTAACTGACTA
 AGCATCAAAGGTACACACAGGAGAAAAACCGTTCGAGTGAATGAATGTGGCAAAGCATTTTCACACAA
 AAGCGCCCTTACTCTTCATCAGAGAACGCACACAGGCGAGAAGCCTTATCAGTGAACGCCTGTGGGAAG
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 GCCCTTCGAATGTCTGGAATGCGGGAAGTCTTTCTGCCAGAAAAGTCATCTACCCAACACCAGAGAACA
 CATATTGGCGACAAACCTTACGAATGTAATGCATGCGGGAACCTTTTATCACAGTCAAGTTCTTACTA
 GGCACAGATAATTACACGGGACTGAAGCCTTATGAATGTTACGAATGTGGCAAGACATTTTGTGTGAA
 ATCAGACTTGACCATTCACCAGAGGACGCACACAGGAGAAAAGCCTTTCGCGTGCCCCGAGTGCGGCAAA
 TTCTTCAGCCATAAGTCTACACTCTCACAGCATTACCGGACGCATACGGGTGAGAAGCCCTACGAGTGTC
 ACGAGTGCAGAAAAATCTTCTACAACAAGTCTTACTTGACCAAGCACACAGGACACATACTGGCGAAAA
 ACCCTATGAGTGCAACGAGTGCAGGAAAAACCTTCTGTCAAAGAGTCACTTACACAGCACCAGAGAATC
 CACATTGGTGAGAAGCCATACGAGTGTAAACGAATGCGGAAAGGCATTTTGCCATAAGTCAGCTCTCATAG
 TACACCAGAGAACCCATACCCAGGAAAAGCCCTACAAATGCAATGAATGTGGGAAGTCATTCTGTGTTAA
 AAGCGGGCTCATCTGCATGAACGAAAGCACACCGGCGAGAAACCGTATGAGTGAATGAATGTGGCAAA
 TCATTCAAGTCAACAGAGCAGTTGACGGTCCACCACCGGCACACACTGGGGAGAAAAGTTGCCAGTGTA
 ACGAGTGCAGGAAAAATTTCTACCGGAAGTCTGATTTGGCCAAGCATCAGCGAGTCACACCGGAGAGAA
 ACCATACGAGTGTAAACGTGTCGCAAAACGTTTAGCCAAAGAGCAATCTGATCGTCCATCAGCGCACT
 CACATCGGAGAAAAGCCATACGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

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>RG223391 representing NM_006955
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Red=Cloning site Green=Tags(s)

MNKVDQKFQGSVSFKDVTVGFTQEEWQHLDPSQRALYRDMLENYSNLVSVGCAHKPEVIFRLEQGEPE
WRLEEEFPSQSFPVWVADHLKERSQENQSKHLWEVVFINNEMLTKEQGNVIGIPFNMDVSSFPSRKMFC
QYDSRGSFNTVSELVISKINYLKKSDDEFNACGKLLLNKIHDEHTTREKNEVLKNRNTLSHRENTLQHE
KIQTLDHNFEYSICQETLLEKAVFNTRKRENAEENNCYNEFGRTFCDSSSLFHQIPPSKDSHYEFSDC
EKFLCVKSTLSKHGDPVKHYDCGESGNFNRRKLCLSQLQKGDKGEKHFECNECGKAFWEKSHLTRHQVR
HTGEKHFQCNQCGKTFWEKSNLTKHQRSHTGEKPFECNECGKAFSHKSALTLHQRTHTGEKPYQCACGK
TFYQKSDLTKHQRTHTGQKPYECYECGKSFCMNSHLTVHQRTHTGEKPFECLECGKSFCQKSHLTQHRT
HIGDKPYECNACGKTFYHKSVALTRHQIITHGLKPYECYECGKTFCLKSDLTIHQRTHTGEKPFACPECGK
FFSHKSTLSQHYRTHTEKPYECHECGKIFYNKSYLTKHNRTHTEKPYECNECGKTFCQKSQLTQHORI
HIGEKPYECNECGKAFCHKSAIVHQRTHTQEKPYKNECGKSFCVKSGLILHERKHTGEKPYECNECGK
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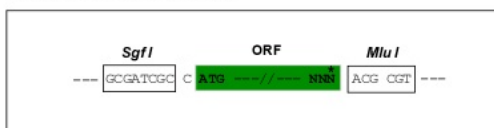
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Kozac
Consensus

EcoRI BamHI KpnI RBS SgfI Asc I

CTATAGGGCGGCGGGGAATTCTGC TACTGGATCCGGTACCGAGGAGATCTGCCGCCGCATCGCCGCGCGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag

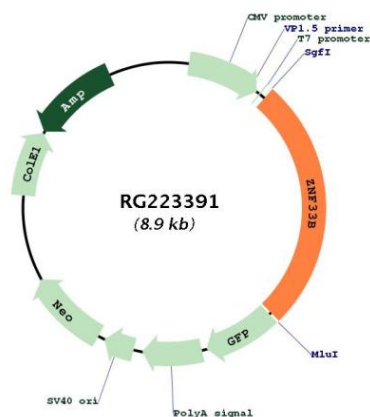
CAAGCTTAAGTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG ACC GAC --- ---
T R T R P L E M E S D - - -

PmeI FseI

--- --- GAA GAA AGA GTT TAA ACGGCGGGCGCGGAGCT
- - E E R V Stop

ACCN:	NM_006955
ORF Size:	2334 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_006955.1 , NP_008886.1
RefSeq Size:	5982 bp
RefSeq ORF:	2337 bp
Locus ID:	7582
UniProt ID:	Q06732
Cytogenetics:	10q11.21
Domains:	KRAB, zf-C2H2
Protein Families:	Transcription Factors
Gene Summary:	This gene encodes a member of the zinc finger family of proteins. This gene shows decreased expression in cumulus cells derived from patients undergoing controlled ovarian stimulation. This gene is present in a gene cluster with several related zinc finger genes in the pericentromeric region of chromosome 10. Pseudogenes have been identified on chromosomes 7 and 10. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2015]

Product images:



Circular map for RG223391