

Product datasheet for **RC218021**

ZSCAN2 (NM_181877) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZSCAN2 (NM_181877) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZSCAN2
Synonyms:	ZFP29; ZNF854
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC218021 ORF sequence, **codon optimized**.
Due to the complexity of NM_181877, 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)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGATGGCCGCAGATATTCCAAGGGTCACCACACCCTGTCTAGCTTGGTGCAGGTGCCTCAGGAGGAGG
ACAGGCAGGAGGAGGAGGTCAACGATGATACTCGAAGATGACTCCTGGGTGCAGGAGGCCGCTCTTCA
AGAGGATGGTCCAGAGAGTGAACATTCCACAGTCAGCGGGCAAAGGTGGACCCCAAGAGGAAGTGACT
AGAGGGCCCCAGGGTGTCTCGGACGCCTCCGAGAGCTGTGCAGGCGGTGGCTGAGGCCGAGGTGCACA
CCAAGGAGCAAATGCTCACTATGTTGCCAAGGAGATCCAAGCATGGCTGCAGGAGCACCCGCTGAGTC
TTCTGAGGAAGCTGCCGCTCTGGTTGAAGATCTTACCCAGACCCTGCAGGATAGCGATTTTCGAGATTCAG
TCCGAGAACGGAGAGAATTGTAATCAGGACATGTTTGAGAACGAGTCCCAGGAAAATCTTCTCCGAGATGC
CTGAAGGTGAGTCAGCCAGCATAGTGACGGAGAGAGCGACTTCGAAAGGGACGCAGGAATCCAGCGCCT
CCAAGGACACTCCCAGGCGAAGACCACGGCGAGGTGGTGTGAGTCAAGACCGAGAAGTGGGCCAGTTGATC
GGGCTGCAGGGGACATACCTCGGTGAGAAGCCTTATGAATGCCCCAGTGTGGAAAGACATTCAGCAGGA
AATCCCCTCTGATTACCCATGAGCGGACGCACACGGGAGAGAAATACTATAAGTGTGACGAATGTGGCAA
GAGTTTTAGCGATGGCAGTAACTTCTCCAGGCACCAGACAACACACTGGAGAGAAGCCCTACAAGTGT
CGCGACTGTGGTAAGTCAATTTAGCCGACGCGCCAACTGATCACGCATCAGCGAATTCATACTGGAGAGA
AGCCGTTCCAGTGCAGGAGTGCAGGAAAATCCTTTTACGATCTCCTAATCTGATCGCACACCAGAGGAC
CCATACAGGTGAAAAGCCTTATTCTGTCTGAGTGCAGGAAAATCATTGGGAATCGCAGCTCTCTGAAC
ACCCACCAAGGCATTCATACCGGGGAGAAGCCATACGAGTGTAAGAGTGCAGGCAATCATTTTCTTATA
ATTCCAACCTGATTAGGCACCAGCGAATTCATACAGGGGAAAAGCCTTACAAGTGTACAGACTGTGGGCA
ACGCTTCTACAAAGTTCTGCTCTCATACCCACCGGAGGACTCACACCGGAGAAAAGCCTTACCAGTGC
AGTGAGTGCAGGAAATCATTTTCAAGATCCAGCAACTGGCTACCCACAGGCGCACCCATATGGTGGAGA
AACCATATAAGTGCAGGTGTGTGTGGGAAGATTTTAGTCAGTCCCTCCCTGATTGCACACCAGGGAAT
GCATACCGGAGAGAAGCCCTACGAGTGCCTGACGTGCGGGGAGAGCTTCAGTTGGAGCTCCAACCTGCTT
AAACACCAGCGAATTCATACCGGTGAGAAGCCCTATAAATGCTCTGAATGCGGAAAAGTGCTTTTCCAGC
GCTCACAGCTGGTTCGTGCACCAGAGAACTCATACAGGAGAAAAGCCGTACAAGTGCCCTCATGTGCGGCAA
AAGCTTACAGCAGGGGTCTATACTCGTTATGCATCAGCGGGCTCACTTGGGCGACAAGCCCTACCGGTGC
CCCGAATGTGGAAAAGGCTTTTCTGGAATTCAGTTCTGATCATTACCAGCGGATTCACACTGGTGAAA
AGCCGTACAAATGTCCTGAGTGCAGGAAAAGGTTTAGTAATAGCAGTAATTTTATCACGCACCAAAGAAC
TCATATGAAGGAGAAGCTCTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218021 representing NM_181877
Red=Cloning site Green=Tags(s)

MMAADIPRVTTPLSSLVQVPQEEDRQEEVTTMILEDSSWVQEAVLQEDGPESEFPFQSAGKGGPQEEVT
 RGPQALGRLRELRRWL RPEVHTKEQMLTMLPKEIQAWLQEHRESSEAAAALVEDLTQTLQSDFEIQ
 SENGENCNQDMFENESRKIFSEMPEGESAQHSDFERDAGIQRLQGHSPGEDHGEVVSQDREVGQLI
 GLQGTYLGEKPYECPQCGKTF SRKSHL I THERHTGEKYKCEDECGKSFSDGSNFSRHQTTHTEKPYKC
 RDCGKSF SRSANL I THQRIHTGEKPFQCAECGKSF SRSPNLI AHQRTHTGEKPYSCPECGKSF GNRSSLN
 THQGIHTGEKPYECKEGESFSYNSNLIRHQRIHTGEKPYKCTDCGQRFSSQSSALITHRRHTGEKPYQC
 SECCKSF SRSSLATHRRTHMVEKPYKCGVCGKSFSSQSSSLIAHQGMHTGEKPYECLTCGESFSWSSNLL
 KHQRIHTGEKPYKCECGKCF SQRSQLV VHQRTHTGEKPYKCLMCGKSF SRGSILVMHQRALGDKPYRC
 PECGKGF SWNSVLI I HQRIHTGEKPYKCECGKGF SNSSNF I THQRTHMKEKLY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_181877

ORF Size: 1842 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_181877.1](#), [NM_181877.2](#), [NM_181877.3](#), [NP_870992.2](#)

RefSeq Size: 3756 bp

RefSeq ORF: 1845 bp

Locus ID: 54993

UniProt ID: [Q7Z7L9](#)

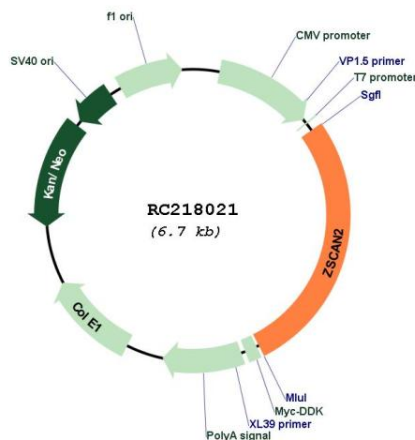
Cytogenetics: 15q25.2

Protein Families: Transcription Factors

MW: 69.5 kDa

Gene Summary: The protein encoded by this gene contains several copies of zinc finger motif, which is commonly found in transcriptional regulatory proteins. Studies in mice show that this gene is expressed during embryonic development, and specifically in the testis in adult mice, suggesting that it may play a role in regulating genes in germ cells. Alternative splicing of this gene results in several transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218021