

## Product datasheet for **RC234381**

### ZKSCAN3 (NM\_001242894) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZKSCAN3 (NM_001242894) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZKSCAN3
Synonyms:	dj874C20.1; dj874C20.1.; ZF47; zfp-47; Zfp47; ZFP306; ZNF306; ZNF309; ZSCAN13; ZSCAN35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234381 representing NM\_001242894  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTAGAGAATTAAGTAAAGCACAGCCTGGATGCCAGTCTACAGAAGACCAGATGGAGCTTCTGG  
 TCATAAAGGTGGAGGAAGAAGAAGCCGGTTTTCCAGTAGCCAGATCTGGGTTCTGAGGGCTCCCGCGA  
 GCGCTTCCGAGGCTTCCGCTACCCGAGGCTGCAGGCCCCCGCAGGCGCTGAGTCGCTCCGAGAGCTC  
 TGCCGACAGTGGCTGCAGCCTGAGATGCACAGCAAGGAGCAGATCCTGGAGCTGCTGGTCTGGAGCAGT  
 TCCTGACCATCCTGCCGGGAATCTGCAGAGCTGGGTGCGGGAGCAGCATCCAGAGAGCGGGGAGGAGGT  
 GGTGGTCTATTGGAGTATTTGGAGAGGACAGTGGATGAGCCGGCGCCGAGTTTCAGTGTGGACCAG  
 GGGCAAGAACTGCTCTGTTGCAAGATGGCACTATTGACACCAGCCCCAGGGTCACAAAGTAGCCAATTTT  
 AGCTAATGAAGGCTCTGCTCAAGCATGAATCTGTGGGATCCCAGCCTTTACAAGATAGAGTTCTCCAGT  
 CCCCGTGTGGCCATGGAGGATGCTGCAGAGAAGATAAAGTGGTAGTTCTAGGCTTACTCCAGAGTCC  
 CAGGGGTTGTTGAAAGTGGAAAGATGTGGCCTGACCCTCACCCCTGAATGGACACAGCAGGATTCATCTC  
 AGGGGAATCTCTGTAGAGATGAAAAGCAGGAGAACCATGGCAGCCTGGTCTCCCTGGGTGATGAAAAACA  
 GACTAAGAGCAGGGACTTGCCTCCAGCTGAGGAGCTTCCAGAAAAGGAGCATGGGAAGATATCGTGCCAC  
 CTGAGAGAAGACATTGCCAGATTCTACATGTGCAGAAGCTGGTGAACAGGAGGGCAGGCTACAAAGAA  
 AGCAGAAAAATGCCACAGGAGGGAGGGCGCACATCTGCCATGAATGTGGAAGAGTTTTGCTCAAAGCTC  
 AGGCCTGAGTAAACACAGGAGAAATCCACTGTTGAGAAACCCTACGAATGTGAAGAGTGTGGCAAAGCC  
 TTCATTTGGAGCTCTGCCCTTGTATTATCAGAGAGTCCACTGTTGAGAAGCCATATGAGTGTGAAG  
 AATGTGGTAAGGCCTTCAGTCAATAGCTCAGACCTTATCAAGCATCAGAGAACCACACTGGGGAGAAGCC  
 CTATGAGTGTGATGACTGTGGGAAGACCTTCAGCCAGAGCTGCAGCCTCCTTGAACATCACAGAATCCAC  
 ACTGGGGAGAAGCCGTATCAGTGCAGTATGTGTGGCAAAGCCTTTAGCGAAGTTCACATCTCTGAGAC  
 ATCAGAGGATCCATACTGGGGATAAAAAATGTTCAAGAACCTGAGCAGGGAGAGGCTGGAAAAGTAGGAT  
 GGAAAGCCAGTTGGAAAATGTTGAAACTCCCATGTCTTATAAATGTAATGAGTGTGAAAGAAGTTTCACT  
 CAGAATACAGGCCTCATTGAACATCAAAAAATCCACTGGTGAAGAACCTATCAGTGTAAATGCGTGTG  
 GAAAAGGCTTACCCGAATTTACATCTGTTCAACATCAGAGAAGCCATGTAGGAAAAACATCTATC  
 ACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234381 representing NM\_001242894  
 Red=Cloning site Green=Tags(s)

MARELSESTALDAQSTEDQMELLVIKVEEEEAGFPSSPDLGSEGSRERFRGFRYPEAAGPREALSRLREL  
 CRQWLQPEMHSKEQILELLVLEQFLTILPGLNLSQSWVREQHPESGEEVVLLLEYLERQLDEPAPQVSGVDQ  
 GQELLCKMALLTPAPGSQSSQFLMKALLKHESVGSQPLQDRVLQVPVLAHGGCCREDKVVASRLTPES  
 QGLLKVEDVALTLTPEWTQDSSQGNLCRDEKQENHGSLSVLDGDEKQTKSRDLPPAEELPEKEHGKISCH  
 LREDIAQIPTCAEAGEQEGRLQRKQKNATGRRRHICHECGKSFAQSSGLSKHRRIHTEKPYECEECGKA  
 FIGSSALVIHQRVHTGEKPYECEECGKAFSHSSDLIKHQRTHTGEKPYECDDCGKTFSSQSCSLEHHRH  
 TGEKPYQCSMCGKAFRRSSHLLRHQRIHTGDKNVQEPEQGEAWKSRMESQLENVTPMSYKCNECERSFT  
 QNTGLIEHQIHTGEKPYQCNAACGKGFTRISYLVQHQRSHVGNILSQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001242894

**ORF Size:** 1614 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\\_001242894.2](#)

**RefSeq Size:** 4842 bp

**RefSeq ORF:** 1617 bp

**Locus ID:** 80317

**UniProt ID:** [Q9BRR0](#)

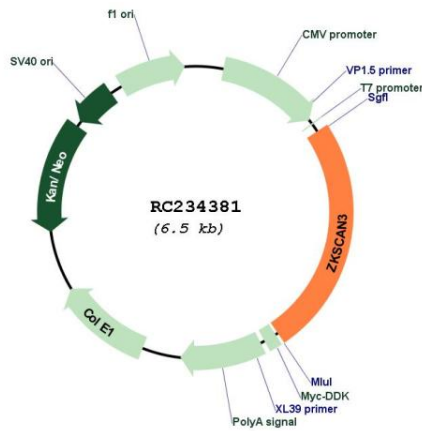
**Cytogenetics:** 6p22.1

**Protein Families:** Transcription Factors

**MW:** 61.1 kDa

**Gene Summary:** Transcriptional factor that binds to the consensus sequence 5'-[GT][AG][AGT]GGGG-3' and acts as a repressor of autophagy. Specifically represses expression of genes involved in autophagy and lysosome biogenesis/function such as MAP1LC3B, ULK1 or WIPI2. Associates with chromatin at the ITGB4 and VEGF promoters. Also acts as a transcription activator and promotes cancer cell progression and/or migration in various tumors and myelomas. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC234381