

Product datasheet for **SC116351**

ZFAND5 (NM_006007) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFAND5 (NM_006007) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZFAND5
Synonyms:	ZA20D2; ZFAND5A; ZNF216
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_006007 edited
 GAATTCGGCACGAGGCCTCGTGCCGAATTCGGCACGAGGTCGCGGCGCGCGGTCCGCTCG
 CCCTCTTCGTCCGCCAACCTGCGGCCTGTGGAGGCGTGAGGCGACGACAGGCGAGCGCC
 TCGAGCAGCGTTAGCCGCTGCGGCCGCCGGTCTCCCTCCACCTCCTCCTCGGCCCCCCC
 TCGCTTCCCTCCTCCACTTCCCGAGCTCCGGCGTGTCCCGGCCACGCTCGACGCTGCTG
 CAGGAACAAAGGAAGACCCCGCGCGCGCGCGGCCACCTCCGCCTGCTGCTCCGACCC
 GCTCCCGGCCCGCGCGCGCGCACAGGCGCGCGGCTCAGCCTTCCCGAGGCGCTCGGC
 CCGGCCTCATCGTGCCGGCTTCGCGCGCAACCCGGCTTTCGCATTTGGGACCCTGCAGG
 GCCCTGAAAAGGAGCCTTTAAAAGTCAATTCTACTCCATTTGGCAAAGAGGGAAGTGA
 TCTGAAAGTAAGGACTTGCCCAAGTCACTGACTTAGTGGCAGACTAGAGACTTGAAGT
 CAGGTCTCCATTCAGCAGAAAAATATGGCTCAGGAGACTAACCAGACCCCGGGGCCCA
 TGCTGTGTAGCACAGGATGTGGCTTTTATGAAATCCTAGGACAAATGGAATGTGTTTCA
 TTTGCTACAAAGAACATCTTCAGAGGCAGAAAAATAGTGGCAGAAATGAGCCCAATGGGA
 CAGCTAGTGGTTCCAACAGTCTACCTCAGATTCTGCATCTGTACAGAGAGCAGACACTA
 GCTTAAACAACGTGAAGGTGCTGCTGGCAGCACATCTGAAAAATCAAGAAATGTGCTG
 TGGCTGCCTTGCTGTAACTCAGCAAAATGACAGAAATGAGCATTTCAAGAGAGGACAAAA
 TAACTACCCCGAAAAACAGAGGTGTCAGAGCCAGTTGTCACTCAGCCCAGTCCATCAGTTT
 CTCAGCCCACTACTTCTCAGAGTGAAGAAAAAGCTCCTGAATTGCCCAACCAAGAAAA
 ACAGATGTTTCATGTGCAGAAAGAAAGTTGGTCTTACAGGGTTTGACTGCCGATGTGGAA
 ATTTGTTTTGTGGACTTCACCGTTACTCTGACAAGCACAACGTGTCGATGATTACAAAG
 CAGAAGCTGCAGCAAAAAATCAGAAAAGAGAATCCAGTTGTTGTGGCTGAAAAAATTCAGA
 GAATATAAATTACTTCTGTGAAGAGACTGAACTTTGTTTTATTTTAAATATATCGTAG
 GAAAAATTAAGAGCAGATGCATGGCCATTTTCTTTGATGTTCTCCAGAGTTTACAT
 TACACTTGTCTGCTTATAATTGATATTTTAGGATGTTTGGGTGTTTGTACAGGCAGAA
 TTGGATAGATACAGCCCTACAAATGTATATGCCCTCCCTGAAAAAATTTGGATGAAAT
 CTGCACAGCAAGTGAAACACACAGATAATAGGAACAAATGTAGTTCCCATGTGCCAAA
 CAAAAATAATGAAATCTCTGCATGTTTGCAGCATATCTGXXXXXXXXXXXXXXXXXCTA
 AAAATGTGTAGCACAGAACTGCACTAGGATTAATTTGTTTACAAGAAGAAATTTAACTC
 TACGTTTGGTTTTACATACAGCAGCTCTATTGAATAACATGCATCTGAATTTTAAAGTTG
 CAAAGGTATCTGAATAATTTTTCATGTGCATCTTTTGTGAATGTTTGGTTCAAGAAAG
 AATGTTTAAAGCTTTTTAAAGACTTCAGTTCTTAATGTAAGTGTACCCTTCTGCATGGA
 AAATCATAACCAACATGGCTGCAGTAGACTTCTTAGTGGTATCCAGCGCCACTTGCAGAG
 GGCTGCTTATCATATTGTACTTGGGTGTAGGACTCTAGTGTCTTGGGTGATTGCATG
 GGCTGCATTATCTACAGCATTGTACAATAACAAGTAAAAAGGAGTATACTTCACTGAT
 GCTTGTCTGGTAATACTCTGTGTATAATGGAAGGTTTTTGTGATGTATGAAAC
 TTGTGTTTTTATATATAAATGAGTATAGTTAGTGTGTGGTAATGCCTGTTTTTCATCTG
 TAAATAGTTAAGTATGTACAGGAGGCACTACTTCTGATTTATTGCAATGTTTCAGTCTAG
 TTTTACTTTTATTCTTAAAGCATTTCAGTTTGTCTTCAATTTTATGTACCTTAGTCTG
 AGTTAGACCTGCAGATGTGTACAGATAGTTCATATTTATGTATTGCACATAATCATGCTA
 TTCAGCATTGATGCTATATTGTATTGTAAATAATAAAAGCCATGTACAGAGGGAAAAA
 AAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006007 unedited
 CGGATTTTGTAAACGACTCACTATAGGGCGGCCCGCAATTTCGCACGAGGCCTCGTGCC
 GAATTCGGCAGAGGTCGCGGCGCGCGTCCGCTCGCCCTCTTCGTCCGCCAACCTGCG
 GCCTGTGGAGGCGTGAGGCGACGACAGGCGAGCGCTCGAGCAGCGTTAGCCGCTGCGGC
 CGCCGGTCTCCTCCACCTCCTCCTCGGCCCCCCTCGTTCCCTCCTCCCACTTCCCG
 AGCTCCGGCGTGTCGCGGCCACGCTCGACGCTGCTGCAGGAACAAAGGAAGACCCCGCG
 CGGCGGCGGCGCACCTCCGCTGCTGCTCCGACCCGCTCCCGGCCCGCGGCGGCGCAC
 CAGGGCGCCCGGCTCAGCCTTCCCGAGGCTCGGCCCGGCTCATCGTCCGCGCTTCGC
 GCGCGAACCCGGCTTTTCGATTTGGGACCCTGCAGGGCCCTGAAAAGGAGCCTTTAAAG
 TCAATTCTACTCCATTTGGCAAAGAGGGAAGTAAATCTGAAAAGTAAGGACTTGCCCAA
 GGTCACTGACTTAGTGGCAGACTAGAGACTTGAAGTCAAGTCTCCATTCAGCAGAAAA
 ATATGGCTCAGGAGACTAACAGACCCCGGGCCCATGCTGTGTAGCACAGGATGTGGCT
 TTTATGGAATCCTCAGACANATGGAATGTGTTCAAGTTTGCTACCAAGACATCTTCAGAG
 GCCGCANAATAGTCCAGAATGAGCCCAATGGGACAGCTAGTGGTTCAACAGTCTACCT
 CAGATCCTGCATCTGTACAGAGAGCAGACACTAGCCTTAACCACTGTGAAAGTGCTGCTG
 GCAGCACCATCTGAAAAATCAAGAAATGTCCCGTGGCCGCGCTTGCTGTAAGTCCACAT
 ATGACGGAATGAGCTTTTCCAGAGAGAACAAATAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006007 unedited
 TGGTGATGGCAACTTCCAGGTCCAGAAAAGCACTGGGAGGAGGTCACAGGGATGCCACCC
 GGNGATCTGTTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTT
 TTTTTTTTTTCCCTCTGTACATGGCTTTTATTATTACATAATACAATATAGCATCAATGC
 TGAATAGCATGATTATGTGCAATACATAAATATGAAGTATCTGTACACATCTGCAGGTCT
 AACTCAAACTAAGGTACATAAAATTGAAAGCAAACTGAATGCTTTAAAAATAAAAGTA
 AAACTAGGACTGAACATTGCAATAAATCAAAAGTAGTGCTCGTGACATACTTAACATA
 TTTACAGATGAAAACAGGCATTACCACAACACTAACTATACTCATTATATATAAAAAAC
 ACAAGTTTCATACATCACAAAAACCTTCCATTATAACACAGAAGTGATTATTACCAGAC
 AAGCATCAGTGAAGTATACTGCCTTTTCTAGTTGTTATTGTACAATGCTGTAGATAATGC
 AGCCCATGCAATACACCAAGAACAAGTACAGTCTACACCAAGTACAATATGATAAAGC
 AGCCCTCTGCAAGTGGCGCTGGATACCACTAAGAAGTCTACTGCAGCCCATGTGGTTATG
 ATTTTCCATGCAAGAGGTACAGTTACATTAAGAACTTGAAGTCTTTTAAAAAGCTTTAA
 ACATTCCTTTCTTGAACCACTTTTCGACAAGAGAGCAGATGAAAAATATTCAGATACCT
 TTGCACCTAAAAATCAGATGCCATGTATTCAATAGAGCTGCTGTATGTTAAACCCACCG
 TAAAGTTAAATTTCTTCTTGAACAAATAATCCT

Restriction Sites:

NotI-NotI

ACCN:

NM_006007

Insert Size:

2600 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_006007.1, NP_005998.1</u>
RefSeq Size:	2425 bp
RefSeq ORF:	642 bp
Locus ID:	7763
UniProt ID:	<u>O76080</u>
Cytogenetics:	9q21.13
Domains:	ZnF_AN1, zf-A20
Gene Summary:	Involved in protein degradation via the ubiquitin-proteasome system. May act by anchoring ubiquitinated proteins to the proteasome. Plays a role in ubiquitin-mediated protein degradation during muscle atrophy. Plays a role in the regulation of NF-kappa-B activation and apoptosis. Inhibits NF-kappa-B activation triggered by overexpression of RIPK1 and TRAF6 but not of RELA. Inhibits also tumor necrosis factor (TNF), IL-1 and TLR4-induced NF-kappa-B activation in a dose-dependent manner. Overexpression sensitizes cells to TNF-induced apoptosis. Is a potent inhibitory factor for osteoclast differentiation.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (c) differs in the 5' UTR compared to variant a. All six variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.