

Product datasheet for **RC221072**

ZFAND5 (NM_001102420) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFAND5 (NM_001102420) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZFAND5
Synonyms:	ZA20D2; ZFAND5A; ZNF216
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221072 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCTCAGGAGACTAACCAGACCCCGGGGCCCATGCTGTGTAGCACAGGATGTGGCTTTTATGAAATC
 CTAGGACAAATGGAATGTGTTTCAGTTTGCTACAAAGAACATCTTCAGAGGCAGCAAAATAGTGGCAGAAT
 GAGCCCAATGGGGACAGCTAGTGGTTCCAACAGTCCTACCTCAGATTCTGCATCTGTACAGAGAGCAGAC
 ACTAGCTTAAACAACGTGAAGGTGCTGCTGGCAGCACATCTGAAAAATCAAGAAATGTGCCTGTGGCTG
 CCTTGCCTGTAACCTCAGCAAATGACAGAAATGAGCATTTCAAGAGAGGACAAAATAACTACCCGAAAAAC
 AGAGGTGTGAGAGCCAGTTGTCACTCAGCCAGTCCATCAGTTTCTCAGCCAGTACTTCTCAGAGTGAA
 GAAAAAGCTCCTGAATTGCCCAAACCAAGAAAAACAGATGTTTCATGTGCAGAAAGAAAGTTGGTCTTA
 CAGGGTTTGACTGCCGATGTGGAATTTGTTTGTGGACTTCACCGTTACTCTGACAAGCACAACGTGCC
 GTATGATTACAAAGCAGAAGCTGCAGCAAAATCAGAAAAGAGAAATCCAGTTGTTGTGGCTGAAAAAATT
 CAGAGAATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC221072 protein sequence
 Red=Cloning site Green=Tags(s)

MAQETNQTPGPMLCSTGCGFYGNPRTNGMCSVCYKEHLQRQQNSGRMSPMGTASGSNSPTSDSASVQRAD
 TSLNNCEGAAGSTSEKSRNVPVAALPVTQQMTESISREDKITTPTKEVSEPVVTQPPSPSVSQPSTSQSE
 EKAPELPKPKKNRCFMCRKKVGLTGFDRCGNLFCGLHRYSDKHNCYPDYKAEAAAKIRKENPVVVAEKI
 QRI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6366_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001102420

ORF Size: 639 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001102420.2](#), [NP_001095890.1](#)

RefSeq Size: 5887 bp

RefSeq ORF: 642 bp

Locus ID: 7763

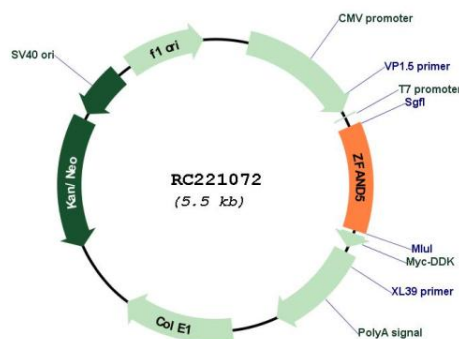
UniProt ID: [O76080](#)

Cytogenetics: 9q21.13

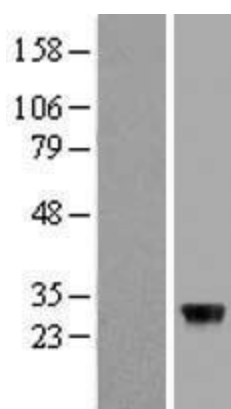
MW: 23.1 kDa

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]

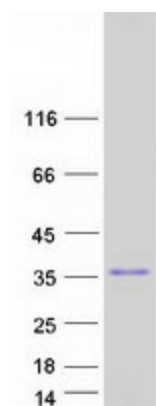
Product images:



Circular map for RC221072



Western blot validation of overexpression lysate (Cat# [LY420148]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC221129] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZFAND5 protein (Cat# [TP321072]). The protein was produced from HEK293T cells transfected with ZFAND5 cDNA clone (Cat# RC221072) using MegaTran 2.0 (Cat# [TT210002]).