

Product datasheet for **RG209943**

ZFAND5 (NM_006007) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFAND5 (NM_006007) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZFAND5
Synonyms:	ZA20D2; ZFAND5A; ZNF216
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209943 representing NM_006007 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCAGGAGACTAACCAGACCCCGGGGCCCATGCTGTGTAGCACAGGATGTGGCTTTTATGAAATC
CTAGGACAAATGGAATGTGTTTCAGTTTGTACAAAGAACATCTTCAGAGGCAGCAAATAGTGCCAGAAT
GAGCCCAATGGGGACAGCTAGTGGTTCCAACAGTCTACCTCAGATTCTGCATCTGTACAGAGAGCAGAC
ACTAGCTTAAACAACGTGAAGGTGCTGCTGGCAGCACATCTGAAAAATCAAGAAATGTGCCTGTGGCTG
CCTTGCCTGTAACCTCAGCAAATGACAGAAATGAGCATTTCAAGAGAGGACAAAATAACTACCCGAAAAC
AGAGGTGTGAGAGCCAGTTGTCCTCAGCCAGTCCATCAGTTTCTCAGCCAGTACTTCTCAGAGTGAA
GAAAAAGCTCCTGAATTGCCCAAACAAAGAAAAACAGATGTTTCATGTGCAGAAAGAAAGTTGGTCTTA
CAGGGTTTACTGCCGATGTGGAATTTGTTTTGTGGACTTCACCGTTACTCTGACAAGCACAACGTCC
GTATGATTACAAAGCAGAAGCTGCAGCAAAAATCAGAAAAGAGAAATCCAGTTGTTGTGGCTGAAAAAATT
CAGAGAATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209943 representing NM_006007
 Red=Cloning site Green=Tags(s)

MAQETNQTPGPMLCSTGCGFYGNPRTNGMCSVCYKEHLQRQQNSGRMSPMGTASGSNSPTSDSASVQRAD
 TSLNNCEGAAGSTSEKSRNVPVAALPVTQQMTEMSISREDKITTPKTEVSEPVVTPSPSVSQPSTSQSE
 EKAPELPKPKKNRCFMCRKKVGLTGFDCRCGNLFCGLHRYSDKHNCOPYDYKAEAAAKIRKENPVVVAEKI
 QRI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006007

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.

RefSeq: [NM_006007.3](#)

RefSeq Size: 2425 bp

RefSeq ORF: 642 bp

Locus ID: 7763

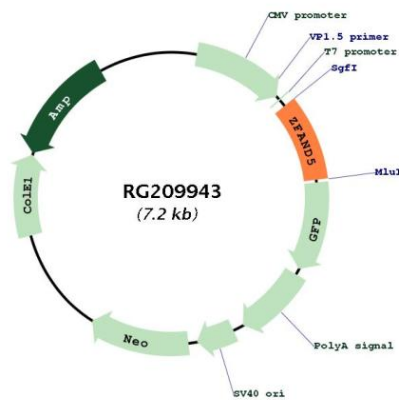
UniProt ID: [O76080](#)

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]

Product images:



Circular map for RG209943