

## Product datasheet for MR223781

### Zfand5 (NM\_009551) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zfand5 (NM_009551) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zfand5
Synonyms:	2310057A04Rik; 5830475F03Rik; AA415485; Za20d2; Zfp216
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223781 representing NM_009551 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGGCTCAGGAGACTAACCAGACCCAGGGCCCATGCTGTGTAGTACAGGATGTGGCTTTTATGGGAATC  
CTAGGACAAATGGAATGTGTTCTGTTTGTCTACAAAGAACATCTTCAGAGACAGCAGAATAGTGGCAGAAT  
GAGCCCAATGGGGACAGCTAGTGGTTCCAACAGTCTACCTCAGATTCTGCATCTGTACAGAGAGCAGAT  
GCTGGTTAAACAACGTGAAGGTGCTGCTGGCAGCACATCTGAAAAATCAAGAAATGTGCCTGTGGCTG  
CCTTGCCTGTAACCAACAAATGACAGAAATGAGCATTTCAAGAGAGGACAAAATAACTACCCCGAAAAC  
AGAGGTGTGAGAGCCAGTTGTCACTCAGCCAGTCCATCAGTTTCTCAGCCAGTTCTTCTCAAAGTGAA  
GAAAAAGCTCCTGAGTTGCCAAACAAAGAAGAACAGATGTTTTATGTGTAGAAAGAAAGTTGGCCTTA  
CAGGGTTTGACTGCCGATGTGGAATTTGTTTTGTGGACTTCACCGTTACTCTGACAAGCACAACGTCC  
ATATGATTACAAAGCAGAAGCTGCAGCAAAAATCAGAAAAGAAAATCCAGTTGTTGTGGCTGAAAAAATC  
CAGAGAATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR223781 representing NM\_009551  
 Red=Cloning site Green=Tags(s)

MAQETNQTPGPMLCSTGCGFYGNPRTNGMCSVCYKEHLQRQQNSGRMSPMGATAGSNSPTSDSASVQRAD  
 AGLNNCEGAAGSTSEKSRNVPVAALPVTQQMTEMSISREDKITTTPKTEVSEPVVTPSPSPVSSSQSE  
 EKAPELPKPKKNRCFMCRKKVGLTGFDCRCGNLFCGLHRYSDKHNCYPDYKAEAAAKIRKENPVVVAEKI  
 QRI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9076\\_d11.zip](https://cdn.origene.com/chromatograms/mm9076_d11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009551

**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\\_009551.5](#), [NP\\_033577.1](#)

**RefSeq Size:** 7385 bp

**RefSeq ORF:** 642 bp

**Locus ID:** 22682

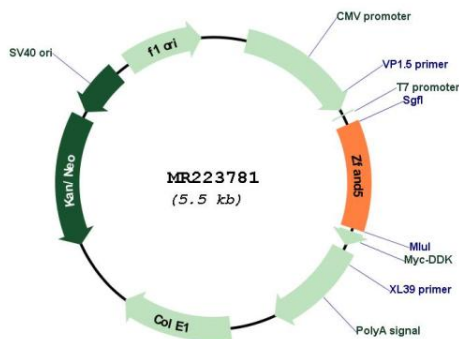
**UniProt ID:** [O88878](#)

**Cytogenetics:** 19 14.32 cM

**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 MR223781