

## Product datasheet for **MR224704**

### Zfp932 (NM\_145563) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp932 (NM_145563) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zfp932
Synonyms:	2310001H12Rik; Znf431
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR224704 representing NM\_145563  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTGGATGCATTGACCTATGATGATGTGTATGTGAACCTCACTCAAGAAGAATGGCCTTGTGTAATC  
 CTTACAGAAAGAGTCTCTACAAAGATGTGATGTTGGAGACCTACAGGAACCTCAATGCTGTAGGCTACAA  
 TTGGGAAGACAGTAATATTGAAGAACATTGTGAAAGCTCCAGAAGACATGGAAGGCATGAAAGAAATCAT  
 ACTGGAGAGAAACCTACGAAGGTATTCATATGGTGAAGCCTTTGTTTCACACAGTAGTCTACAAATGC  
 GTAAAATAATACATACTGGAGAGAAACGCTACAAATGCAATCAATGTGATAAAGCCTATTCACGACACAG  
 CATTCTACAAATACATAAAAGAACACATAGTGGAGAGAAACCTATGAATGTAATCAATGTGGTAAAGCC  
 TTTACACAACACAGTCATCTCAAATACATATGGTTACACATACTGGAGAGAAACCTTACAAATGTGATC  
 AATGTGGTAAAGCCTTTGCATTCATAGTACCCTCCAAGTACATAAAAGAACACATACTGGAGAGAAAC  
 CTATGAATGTAATCAGTGTAGTAAAGCCTTTGCACATCATTGTGATCTCCGAGTACATAAAAGAATACAC  
 ACTGGAGAGAAACCTTACAAATGTGATCAATGTGGTAAAGCCTTTGTAGGTCAGAATGATCTTAAGAGAC  
 ATGAAAGAGTTCATACTGGAGAGAAACCTTACAAATGCAATGAATGTGGTAAAGCCTTTGTATGTAATGC  
 CAGTCTCCGTACACATAAAACAACATACTGGAGTAAACCTTATGAATGTAAGCAGTGTACTAAATCC  
 TTTGCCTCTCATGGTCAACTTCAAAAACATGAAAGAATTCATACTGGAGAGAAACCTTACAAATGTGATC  
 AGTGTGGTAAAGCCTTTGCCTCTCATGATAAATTTCAAAAACATGAAAGAATTCATATTGGAGAGAAAC  
 TTACAAATGTAAGCAATGTAATAATCCTTTGCCTCTCATGATAAACTTCAAAAACATGAAAGAATTCAT  
 ACTGGAGAGAAACCTTATGAATGTAAGCAATGTAATAATCCTTTGCCTCTCATAATAAACTTCAAAAAC  
 ATGAAAGAATTCATACTGGAGAGAAACCTTACAAGTGTGATCAATGTAATAAAGCCTTTGTATGAAAG  
 TTTTACAAAGTTCATAAAAAAACACATACTGGAGAGAAACCTTACAAATGTAATGAATGTGGTAAAGCC  
 TTTGCACGACACAGTCATCTCAAAGTGCATAAAATAACACATACTGGAGAGAAACCTTACAAATGTAATC  
 AATGTGGTAAAGCCTTGCATATCATAGTACACTCCAAGTACATCAAAGAACACATACTGGAGAGAAAGCC  
 CTATGAATGTGAGCAATGTGGCAAAGCCTTTGCAATCAAAGTTATTTCCAAGTACATAAAAGAATACAT  
 ACTGGAGAGAAACCTTACAAATGTGATCAATGTGGTAAAGCCTTTGTAGGTTCAAGTGTCTTAAAGAC  
 ATGAAAGAGTTCATACTGGAGAGAAACCTTACAAATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224704 representing NM\_145563  
 Red=Cloning site Green=Tags(s)

MVDALTYDDVYVNFTEEWALLNPSQKSLYKDVMLETYRNLNAVGYNWEDSNIEEHCESSRRHRHERNH  
 TGEKPYEGIQYGEAFVHSSQLMRKIIHTGEKRYKCNQCDKAYSRSILQIHKRTHSSEKPYECNQCCKA  
 FTQHSCLKIHMVHTTGEKPYKCDQCGKAFVHSTLQVHKRTHHTGEKPYECNQCCKAFVHCHLRVHKRIH  
 TGEKPYKCDQCGKAFVQNDLKRHERVHTGEKPYKCNQCGKAFVFNASLRTHKTTHTGVKPYECKQCTKS  
 FASHGQLQKHERIHTGEKPYKCDQCGKAFVSHDKFQKHERIHIHGEKPYKCKQCTKSFASHDKLQKHERIH  
 TGEKPYECKQCTKSFASHNKLQKHERIHTGEKPYKCDQCNKAFVYESYLQVHKHTHTGEKPYKCNQCGKA  
 FARHSHLVHKIHTHTGEKPYKCNQCGKALAYHSTLQVHQRTHTGEKPYECEQCGKAFANQSYFQVHKRIH  
 TGEKPYKCDQCGKAFVGSDDLKRHERVHTGRETLM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_145563

**ORF Size:** 1578 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\\_145563.2](#), [NP\\_663538.2](#)

**RefSeq Size:** 2075 bp

**RefSeq ORF:** 1581 bp

**Locus ID:** 69504

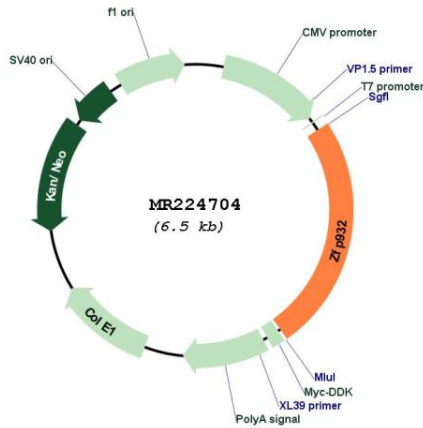
**UniProt ID:** [E9QAG8](#)

**Cytogenetics:** 5 F

**MW:** 61.3 kDa

**Gene Summary:** Sequence-specific DNA binding transcriptional repressor. Represses target gene transcription by recruiting HDAC1 and HDAC2 histone deacetylases. Acts as a specific transcriptional repressor for PTCH1 during embryonic development. Required for osteoblast differentiation and sonic hedgehog/SHH signaling response. Binds to the consensus site 5'-GCGCCC-3' in the promoter of PTCH1.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR224704