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Product datasheet for MR208440

Zfp932 (BC012405) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp932 (BC012405) 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:

>MR208440 representing BC012405
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGATGCATTGACCTATGATGATGTGTATGTGAACTTCACTCAAGAAGAATGGGCTTTGCTGAATC
CTTCACAGAAGAGTCTCTACAAAGATGTGATGTTGGAGACCTACAGGAACCTCAATGCTGTAGGCTACAA
TTGGGAAGACAGTAATATTGAAGAACATTGTGAAAGCTCCAGAAGACATGGAAGGCATGAAAGAAATCAT
ACTGGAGAGAAACCCTACGAAGGTATTCAATATGGTGAAGCCTTTGTTCATCACAGTAGTCTACAAATGC
GTAAAATAATACATACTGGAGAGAAACGCTACAAATGCAATCAATGTGATAAAGCCTATTCACGACACAG
CATTCTACAAATACATAAAAGAACACATAGTGGAGAGAAACCCTATGAATGTAATCAATGTGGTAAAGCC
TTTACACAACACAGTCATCTCAAAATACATATGGTTACACATACTGGAGAGAAACCTTACAAATGTGATC
AATGTGGTAAAGCCTTTGCATTCCATAGTACCCTCCAAGTACATAAAAGAACACATACTGGAGAGAAACC
CTATGAATGTAATCAGTGTAGTAAAGCCTTTGCACATCATTGTCATCTCCGAGTACATAAAAGAATACAC
ACTGGAGAGAAACCTTACAAATGTGATCAATGTGGTAAAGCCTTTGTAGGTCAGAATGATCTTAAGAGAC
ATGAAAGAGTTCATACTGGAGAGAAACCTTACAAATGCAATGAATGTGGTAAAGCCTTTGTATGTAATGC
CAGTCTCCGTACACATAAAACAACACATACTGGAGTGAAACCTTATGAATGTAAGCAGTGTACTAAATCC
TTTGCCTCTCATGGTCAACTTCAAAAACATGAAAGAATTCATACTGGAGAGAAACCTTACAAATGTGATC
AGTGTGGTAAAGCCTTTGCCTCTCATGATAAATTTCAAAAACATGAAAGAATTCATACTGGAGAGAAACC
TTACAAATGTAAGCAATGTACTAAATCCTTTGCCTCTCATGATAAACTTCAAAAACATGAAAGAATTCAT
ACTGGAGAGAAACCTTATGAATGTAAGCAATGTACTAAATCCTTTGCCTCTCATAATAAACTTCAAAAAC
ATGAAAGAATTCATACTGGAGAGAAGCCTTACAAGTGTGATCAATGTAATAAAGCCTTTGTATATGAAAG
TTATTTACAAGTTCATAAAAAAACACATACTGGAGAGAAACCTTACAAATGTAATGAATGTGGTAAAGCC
TTTGCACGACACAGTCATCTCAAAGTGCATAAAATAACACATACTGGAGAGAAACCTTACAAATGTAATC
AATGTGGTAAAGCCCTTGCATATCATAGTACACTCCAAGTACATCAAAGAACACATACTGGAGAGAAGCC
CTATGAATGTGAGCAATGTGGCAAAGCCTTTGCAAATCAAAGTTATTTCCAAGTACATAAAAGAATACAT
ACTGGAGAGAAACCCTACAAATGTGATCAATGTGGTAAAGCCTTTGTAGGTTCAAGTGATCTTAAAAGAC
ATGAAAGAGTTCATACTGGGAGAGAAACCTTACAAATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208440 representing BC012405
Red=Cloning site Green=Tags(s)

MVDALTYDDVYVNFTQEEWALLNPSQKSLYKDVMLETYRNLNAVGYNWEDSNIEEHCESSRRHGRHERNH
TGEKPYEGIQYGEAFVHHSSLQMRKIIHTGEKRYKCNQCDKAYSRHSILQIHKRTHSGEKPYECNQCGKA
FTQHSHLKIHMVTHTGEKPYKCDQCGKAFAFHSTLQVHKRTHTGEKPYECNQCSKAFAHHCHLRVHKRIH
TGEKPYKCDQCGKAFVGQNDLKRHERVHTGEKPYKCNECGKAFVCNASLRTHKTTHTGVKPYECKQCTKS
FASHGQLQKHERIHTGEKPYKCDQCGKAFASHDKFQKHERIHTGEKPYKCKQCTKSFASHDKLQKHERIH
TGEKPYECKQCTKSFASHNKLQKHERIHTGEKPYKCDQCNKAFVYESYLQVHKKTHTGEKPYKCNECGKA
FARHSHLKVHKITHTGEKPYKCNQCGKALAYHSTLQVHQRTHTGEKPYECEQCGKAFANQSYFQVHKRIH
TGEKPYKCDQCGKAFVGSSDLKRHERVHTGRETLQM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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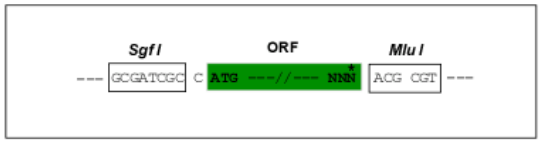
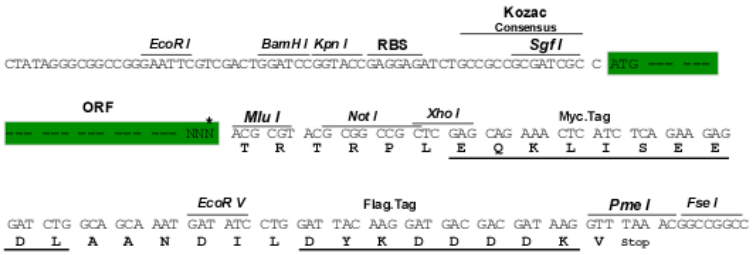
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: BC012405

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: BC012405

RefSeq Size: 2113 bp

RefSeq ORF: 1580 bp

Locus ID: 69504

Cytogenetics: 5 F

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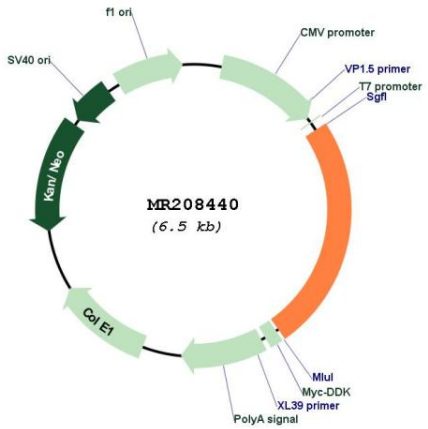
MW: 77.4 kDa

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 MR208440

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