

Product datasheet for **MR224682**

Ing5 (NM_025454) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ing5 (NM_025454) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ing5
Synonyms: 1700001C14Rik; 1700027H23Rik; 1810018M11Rik; AI225768
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR224682 representing NM_025454
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGACTGCCATGTAATTGGAGCACTATCTGGACAGCATTGAGAACCTTCCCTGTGAACTTCAGAGGA
ACTTCCAGCTGATGCGAGAGCTAGACCAGAGAACAGAAGATAAGAAAGCAGAGATCGACATCCTGGCTGC
AGAGTATATTTCCACAGTGAAGACTCTCTCGTCAGCCCAGCGTGTGGAGCACCTCCAGAAGATCCAGAGC
GCCTACAGCAAGTCAAGGAGTACAGTGTGACAAGGTGCAGCTGGCCATGCAGACCTACGAGATGGTGG
ATAAACACATCCGAAGACTTGATGCTGACTGGCGCGCTTTGAGGCTGACCTGAAGGACAGGATGGATGG
AAGTGACTTTGAGAGCACTGGAGCACGGAGCTTAAAAAAGGCCGAGTCAGAAAAGAAAAAGAAGCTCC
CGGGGCCGAGGCCGCGGACGTCAGAAGAGGATACCCCAAAGAAGAAACATAAAAAGCGGCTCTGAGT
TACTGACAGTATCCTATCTGTGCACCCCTCTGATGTGCTGGACATGCCTGTGGATCCGAATGAGCCTAC
ATACTGCTTGTGCCACCAGGTGCTCTACGGGGAGATGATCGGCTGTGACAATCCAGATTGTCCCATTGAG
TGGTTTCACTTTGCCTGCGTGGATCTCACCACAAAGCCCAAGGAAAGTGGTTTTGTCCACGATGTGTT
AGGAAAAGAGGAAGAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224682 representing NM_025454
Red=Cloning site Green=Tags(s)

MATAMYLEHYLDSIENLPCELQRNFQLMRELDQRTEDKKAIEDILAAEYISTVKTLSSAQRVEHLQKIQS
 AYSKCKEYSDDKVQLAMQTYEMVDKHIRRLDADLARFEADLKDRMDGSDFFESTGARSLKKGRSQKEKRSS
 RGRGRRTSEEDTPKKKKHKSGSEFTDSILSVHPSDVLDMPPVDPNEPTYCLCHQVSYGEMIGCDNPDPCIE
 WFHFACVDLTTKPKGKWFPCRCVQEKRRKKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_025454

ORF Size: 720 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_025454.2](#), [NP_079730.1](#)

RefSeq Size: 4539 bp

RefSeq ORF: 723 bp

Locus ID: 66262

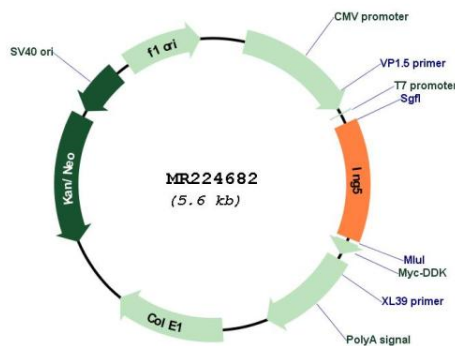
UniProt ID: [Q9D8Y8](#)

Cytogenetics: 1 D

MW: 28.2 kDa

Gene Summary: Component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo. Component of the MOZ/MORF complex which has a histone H3 acetyltransferase activity. May function as a transcriptional coactivator for RUNX2. Inhibits cell growth, induces a delay in S-phase progression and enhances Fas-induced apoptosis in an INCA1-dependent manner (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224682