

## Product datasheet for MR206480

### Ing3 (NM\_023626) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ing3 (NM_023626) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ing3
Synonyms:	1300013A07Rik; P47ING3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206480 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATTGAGCAGCTTCCGATGGACCTGCGGGACCGCTTCACGGAGATGCGCGAGATGGATCTGCAGGTGC  
AGAATGCAATGGATCAACTAGAACAAGAGTCAGTGAGTTCTTTATGAATGCAAAGAAGAATAAACCCGA  
GTGGCGAGAAGAACAGATGGCATCCATCAAAAAAGACTACTATAAAGCTTTGGAAGATGCAGATGAGAAA  
GTACAGTTGGCAAACAGATTTATGATTTGGTAGATCGCCACTTGAGAAAGCTGGATCAGGAACTGGCCA  
AGTTTAAATGGAGCTGGAAGCCGATAATGCTGGAATTACAGAAATACTAGAGAGGCGATCTTTGGAATT  
AGATGCTCCTTCGAGCCAGTGAACAATCACCAGCTCATTACATACTCCCGTGAAAAAAGGAAATAT  
AATCCAATTCTCACCATGCAGCAGCAGACCATATCCCTGAGAAGAAATCAAATCTGAAGCGCTGCTGT  
CCACCCTTACATCTGACGCTTCCAAGGAGAACACGCTGGGTTGTGCGAATAATAATTCCACAGCTTCCTG  
CAACAATGCTTACAATGTGAACCTCGTCCAGCCCTGGCCTCCTATAACATTGGTTTATTCTTACAGG  
GCTGGCGCAGGGGCCATCACCATGGCGGCAGCACAGGCCGTGCAAGCGACAGCACAGATGAAAGAAGGGA  
GAAGAACATCGAGTTTAAAGCCAGTTACGAAGCATTTAAGAACAATGACTTCCAGCTGGGAAAAGAATT  
TTCCATACCCAGAGAAACAGCTGGTACTCCTCCTCATCGGCACTCATGACAACCTTAACCCAGAATGCC  
AGTTCTCCGCCACGGACTCGCGAGTGGCAGGAAGAGCAAAAACAACCAAGTCTTCAAGCCAGCAGT  
CGTCGTCCTCCTCCTCGTCGTCCTCTTCTCCTTATCTGTGTTCATCGTCTTCAACTGTAGTACA  
AGAAGTTTCCAGCAAGCAACTGTAGTGCCGAATCTGACTCCAACAGTCAAGTCGATTGGACTTACGAC  
CCAAATGAACCTCGGTATTGCATCTGTAATCAGGTATCCTATGGAGAGATGGTGGATGTGATAACCAAG  
ATTGTCCAATAGAATGGTTCCACTATGGGTGTGTTGGCTTGACCGAAGCGCCGAAGGGGAAGTGGTTCTG  
TCCGAGTGCACCGCTGCCATGAAGAGAAGAGGCAGTCGGCACAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206480 protein sequence  
Red=Cloning site Green=Tags(s)

MIEQLPMDLRDRFTEMREMDLQVQNAMDQLEQRVSEFFMNAKKNKPEWREEQMASIKKDYYKALEDADEK  
 VQLANQIYDLVDRHLRKLDQELAKFKMELEADNAGITEILERRSLELDAPSQPVNNHHAHSHTPVEKRKY  
 NPTSHHAAADHIPEKKFKSEALLSTLTSKASKENTLGCRRNNSTASCNNAYNVNNSQPLASYNIGSLSSG  
 AGAGAITMAAAQAVQATAQMKEGRRTSSLKASYEAFKNNDQFLGKEFSIPRETAGYSSSSALMTTLTQNA  
 SSSATDSRSGRKSKNNTKSSSQSSSSSSSSSLCSCSSSTVVQEVSQQATVVPESDSSNSQVDWTYD  
 PNEPRYCICNQVSYGEMVGCNDQDCPIEFHYGCVGLTEAPKWKWFCPQCTAAMKRRGRSHK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_023626

**ORF Size:** 1239 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\\_023626.4](#)

**RefSeq Size:** 3755 bp

**RefSeq ORF:** 1266 bp

**Locus ID:** 71777

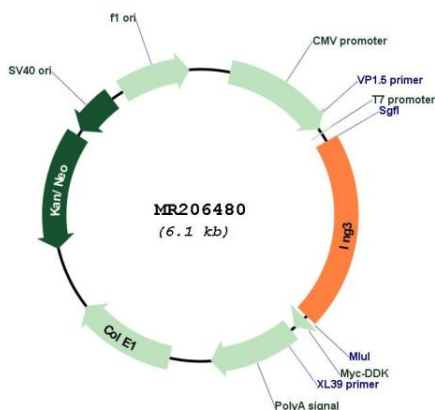
**UniProt ID:** [Q8VEK6](#)

**Cytogenetics:** 6 A3.1

**MW:** 45.7 kDa

**Gene Summary:** Component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when directly recruited to sites of DNA damage. Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AFZ from the nucleosome (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206480