

Product datasheet for **RN200685**

Ing3 (NM_001034107) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ing3 (NM_001034107) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ing3
Synonyms:	MGC112729
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN200685 representing NM_001034107
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTGTACCTAGAAGACTATTTGGAAATGATTGAGCAGCTTCCGATGGACCTGCGGGACCGCTTACCGG
 AGATGCGCGAGATGGATCTGCAGGTGCAGAATGCAATGGATCAACTAGAACAAAGAGTCAGTGAATCCTT
 TATGAATGCAAAGAAGAATAAACCCGAGTGGCGAGAAGAACAGATGGCATCCATCAAAAAAGACTACTAT
 AAAGCTTTGGAAGATGCAGATGAGAAAGTACAGTTGGCGAACCAATTTATGATTTGGTAGATCGCCACT
 TGAGAAAGCTGGACCAGGAGCTGGCTAAGTTTAAATGGAGCTGGAAGCTGATAATGCTGGAATTACGGA
 AATATTGGAGAGGCGATCTTTGGAATTAGATGCTCCTTCGAGCCAGTGAACAATCACCACGCTCATTCA
 CATACTCTGTGGAAAAAGGAAATATAATCCAACCTCTCACCATACAGCAACAGACCATATCCCCGAAA
 AGAAATCAAATCCGAAGCTCCTGTCCACCCTTACATCTGATGCTTCTAAGGAGAACACGCTGGGCTG
 TCGAAATAATAATCCACAGCTTCTGTCAACAATGCTTACAATGTGAACCTGTCCTCAACCCCTGGCATCC
 TACAATATTGGTTCATTATCTTCAGGGGCTGGCGCAGGGGCCATCACCATGGCAGCAGCTCAGGCAGTGC
 AAGCAACAGCACAGATGAAAGAAGGACGAAGAATCGAGTTTAAAAGCCAGTTATGAAGCGTTTAAAGAA
 TAATGACTTCCAGCTGGGAAAAGAATTCTCCATGCCAGAGAGACAGCAGGCTATTCTCTCTCGTCGGCA
 CTCATGACAACCTTAACACAGAAATGCCAGCTCCTCGGCCCGGACTCTCGCAGTGGCAGGAAGAGCAAAA
 ATAACACCAAGTCTTCAAGCCAGCAGTCTCTCTCTCATCTCTCGTCTCTCTCTCTCTTATCTCT
 GTGTTTCGTCATCTTCAACTGTAGTACAAGAAGTTCCAGCAACAACGGTAGTCCCGAATCTGATTCC
 AACAGTCAGGTCGATTGGACTTACGACCCAAATGAACCCCGGTATTGCATCTGTAATCAGGTATCCTATG
 GAGAGATGGTGGGATGTGATAACCAAGACTGTCCAATAGAGTGGTCCACTATGGGTGTGTCGGCTTGAC
 AGAAGCACCGAAGGGGAAGTGGTTCTGTCCGAGTGCACGGCTGCCATGAAGAGAAGAGGCAGTCGACAC
 AAATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001034107

Insert Size: 1266 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001034107.1](#), [NP_001029279.1](#)

RefSeq Size: 2210 bp

RefSeq ORF: 1266 bp

Locus ID: 312154

UniProt ID: [Q498T3](#)

Cytogenetics: 4q22

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]