

Product datasheet for MR203150

Ing4 (NM_133345) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ing4 (NM_133345) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ing4
Synonyms:	D6Wsu147e; D6Xrf92; p29ING4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR203150 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCTGGGATGATTTGGAACATTATCTGGACAGTATTGAAAACCTCCCGTTGAATTACAGAGAA
ACTTTTCAGCTCATGAGGGACCTAGACCAAAGGACAGAGGACCTGAAGGCTGAAATTGACAAGTTGGCCAC
TGAATATATGAGTAGCGCCCGCAGCCTGAGCTCCGAGGAGAAGCTGGCCCTTCTCAGACAGATCCAGGAG
GCCTATGGCAAGTGCAAGGAATTTGGTGACGACAAGGTGCAAGCTGGCCATGCAGACCTATGAGATGGTAG
ACAAACACATTCGGCGGCTGGACACAGACCTGGCCCGTTTTGAGGCTGATCTGAAGGAGAAAACAGATCGA
GTCCAGTGACTATGACAGCTCTTCTAGCAAAGGCAAAAAGAGCCGGACCCAAAAGGAGAAAAAGCTGCC
AGAGCCCGTTCCAAAGGGAAAAACTCAGATGAAGAAGCCCAAGGCTGCCCAGAAGAAGTTAAACTTG
TGCGCACAAAGTCTGAGTATGGGATGCCCTCAGTGACCTTTGGCAGTGTCCACCCCTCTGATGTGTTGGA
TATGCCTGTGGATCCCAACGAACCCACATATTGCCTTTGTACCAGGTCTCCTATGGAGAGATGATTGGC
TGTGACAACCCGATTGTTCCATCGAGTGGTCCACTTCGCCTGTGTGGGGCTGACAACCAACCTCGAG
GGAAATGGTTTTGCCACGCTGCTCCAAGAACGGAAGAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203150 protein sequence
 Red=Cloning site Green=Tags(s)

MAAGMYLEHYLDSIENLPFELQRNFQLMRDLQRTEDLKAIEDKLATEYMSSARLSSEEKALLRQIQE
 AYGKCKEFGDDKVLAMQTYEMVDKHIRRLDLDLARFEADLKEKQIESSDYDSSSSKGGKSRQKEKAA
 RARSKGKNSDEEAPKAAQKLLKLVRTSPEYGMPSVTFGSHVPSVLDMPVDPNEPTYCLCHQVSYGEMIG
 CDNPDCSIEWFHFACVGLTTKPRGKWFPCPRCSQERKKK

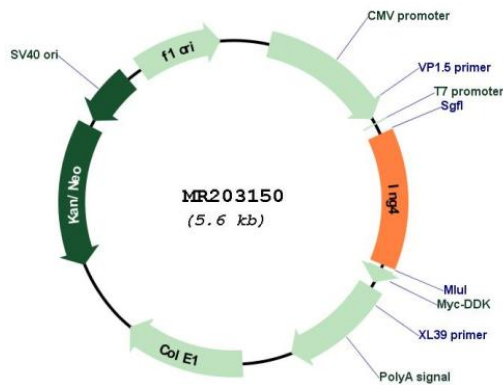
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_133345
ORF Size: 747 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:	<ol style="list-style-type: none"> 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_133345.2
RefSeq Size:	1617 bp
RefSeq ORF:	747 bp
Locus ID:	28019
UniProt ID:	Q8C0D7
Cytogenetics:	6 59.17 cM
MW:	28.4 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. Through chromatin acetylation it may function in DNA replication. May inhibit tumor progression by modulating the transcriptional output of signaling pathways which regulate cell proliferation. Can suppress brain tumor angiogenesis through transcriptional repression of RELA/NFKB3 target genes when complexed with RELA. May also specifically suppress loss of contact inhibition elicited by activated oncogenes such as MYC. Represses hypoxia inducible factor's (HIF) activity by interacting with HIF prolyl hydroxylase 2 (EGLN1) (By similarity). Can enhance apoptosis induced by serum starvation in mammary epithelial cell line HC11 (PubMed:11888890).[UniProtKB/Swiss-Prot Function]