

Product datasheet for **MG203150**

Ing4 (NM_133345) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ing4 (NM_133345) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ing4
Synonyms: D6Wsu147e; D6Xrf92; p29ING4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203150 representing NM_133345
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCTGGGATGATTTGGAACATTATCTGGACAGTATTGAAAACCTCCCGTTTGAATTACAGAGAA
ACTTTTCAGCTCATGAGGGACCTAGACCAAAGGACAGAGGACCTGAAGGCTGAAATTGACAAGTTGGCCAC
TGAATATATGAGTAGCGCCCGCAGCCTGAGCTCCGAGGAGAAGCTGGCCCTTCTCAGACAGATCCAGGAG
GCCTATGGCAAGTCAAGGAATTTGGTGACACAAGGTGCAGCTGGCCATGCAGACCTATGAGATGGTAG
ACAAACACATTTCGGCGGCTGGACACAGACCTGGCCCGTTTGGAGGCTGATCTGAAGGAGAAACAGATCGA
GTCCAGTGACTATGACAGCTCTTCTAGCAAAGGCAAAAAGAGCCGGACCCAAAAGGAGAAAAAGCTGCC
AGAGCCCGTTCCAAAGGGAAAACTCAGATGAAGAAGCCCAAGGCTGCCCAGAAGAAGTTAAACTTG
TGCGCACAAAGTCCTGAGTATGGGATGCCCTCAGTGACCTTTGGCAGTGTCCACCCCTCTGATGTGTTGGA
TATGCCTGTGGATCCCAACGAACCCACATATTGCCTTTGTACCAGGTCTCCTATGGAGAGATGATTGGC
TGTGACAACCCGGATTGTTCCATCGAGTGGTCCACTTCGCTGTGTGGGGCTGACAACCAACCTCGAG
GAAATGGTTTTGCCACGCTGCTCCCAAGAACGGAAGAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203150 representing NM_133345
Red=Cloning site Green=Tags(s)

MAAGMYLEHYLDSIENLPFELQRNFQLMRDLQRTEDLKAIEDKLATEYMSSARLSSEEKALLRQIQE
 AYGKCKEFGDDKVQLAMQTYEMVDKHIRRLDLDLARFEADLKEKQIESSDYDSSSSKGGKKSRTQKEKAA
 RARSKGKNSDEEAPKAAQKLLKLVRTSPEYGMPSVTFGSVHPSVDLMDPVPDNEPTYCLCHQVSYGEMIG
 CDNPDCSIEWFHFACVGLTTKPRGKWFPCPRCSQERKKK

TRTRPLE - GFP Tag - V

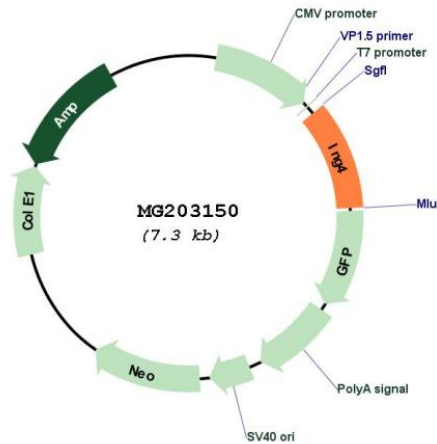
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_133345

ORF Size: 744 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:	1618 bp
RefSeq ORF:	747 bp
Locus ID:	28019
UniProt ID:	Q8C0D7
Cytogenetics:	6 59.17 cM
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]