

Product datasheet for **MR203794**

Ing2 (NM_023503) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ing2 (NM_023503) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ing2
Synonyms: 2810011M06Rik; Ing1l; Ing2b; P33ING2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR203794 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTAGGGCAGCAGCAGCAGCAGCTGTACTCGTCGGCCGCTCCTGACCGGAGAGCGGAGCCGGC
TGCTCTCCTGCTACGTGCAGGACTACCTGGAGTGTGGAGTCGCTGCCACGACATGCAGAGGAACGT
GTCGGTGTGCGGGAGCTGGACAACAAATACCAAGAACGTTAAAGGAAATTGATGATGTCTATGAAAA
TATAAGAAAGAAGATGATTCCAACAGAAAAACGCCTACAGCAGCATCTCCAGAGAGCGTTAATCAATA
GCCAAGAATTGGGAGATGAAAAATTCAGATTGTCACCCAGATGCTCGAATTGGTGGAGAACCGAGCGAG
ACAAATGGAGCTGCATTCACAGTGTTCAGGATCCTGCTGAAAGTGAGCGAGCCTCAGACAAGTCGAAG
ATGGATCCAGTCAACCGAAAGATCTTCTAGAAGACCTCGAAGACAGAGGACCAGTGAGAGCCGTGACT
TATGTCACATGACAAACGGGATTGACGACTGTGATGATCAACCACGAAAGAAAAGAGATCCAAGTCCGC
CAAGAAGAAGAAGCGCTCCAAGGCCAAGCAGGAGAGGGAGGCAATCCCCTGTCGAGTTTGCCATCGATCCC
AATGAGCCCACTACTGCTTGTGTAACCAAGTGTCTACGGGGAGATGATAGGCTGTGACAATGAACAGT
GTCCCATGAAATGGTTTCACTTTTCATGTGTTTCACTCACCTATAAACCAAGGGGAAATGGTATTGCC
AAAGTGTAGGGGAGACAATGAGAAAACCATGGACAAAAGTACCGAAAAGACAAAAAGGAGAGAAGAGCC
AGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203794 protein sequence
Red=Cloning site Green=Tags(s)

MLGQQQQQLYSSAALLTGERSRLLSCYVQDYLECVELPHDMQRNVSVLRELDNKYQETLKEIDDVYEK
 YKKEDDSNQKKRLQHLQRALINSQELGDEKIQIVTQMLELVENRARQMEHLSQCFQDPAESERASDKSK
 MDSSQPERSSRRPRRQRTSESRDLCHMTNGIDDCDDQPPKEKRSKSAKKKRSKAKQEREASPVFAIDP
 NEPTYCLCNQVSYGEMIGCDNEQCPIEFHFHSCVSLTYKPKGKWCPCRCRGDNEKTMDKSTKTKKERRA
 R

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_023503

ORF Size: 846 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_023503.3](#), [NP_075992.2](#)

RefSeq Size: 2813 bp

RefSeq ORF: 846 bp

Locus ID: 69260

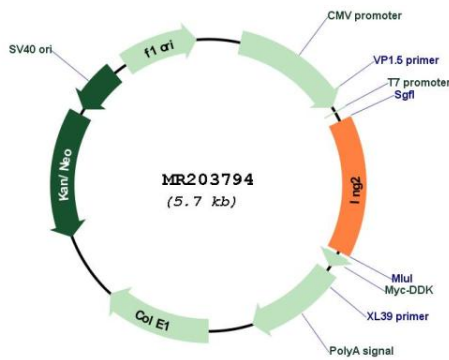
UniProt ID: [Q9ESK4](#)

Cytogenetics: 8 B1.1

MW: 33 kDa

Gene Summary: Seems to be involved in p53/TP53 activation and p53/TP53-dependent apoptotic pathways, probably by enhancing acetylation of p53/TP53. Component of a mSin3A-like corepressor complex, which is probably involved in deacetylation of nucleosomal histones. ING2 activity seems to be modulated by binding to phosphoinositides (PtdInsPs) (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203794