

## Product datasheet for **MG203794**

### Ing2 (NM\_023503) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ing2 (NM_023503) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ing2
Synonyms:	2810011M06Rik; Ing1l; Ing2b; P33ING2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203794 representing NM_023503 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTAGGGCAGCAGCAGCAGCAGCTGTACTCGTCGGCCGCTCCTGACCGGAGAGCGGAGCCGGC  
TGCTCTCTGCTACGTGCAGGACTACCTGGAGTGTGTGGAGTCGCTGCCACGACATGCAGAGGAACGT  
GTCGGTGTGCGGGAGCTGGACAACAAATACCAAGAAACGTTAAAGGAAATTGATGATGTCTATGAAAA  
TATAAGAAAGAAGATGATTCCAACAGAAAAACGCCTACAGCAGCATCTCCAGAGAGCGTTAATCAATA  
GCCAAGAATTGGGAGATGAAAAATTCAGATTGTCACCCAGATGCTCGAATTGGTGGAGAACCGAGCGAG  
ACAAATGGAGCTGCATTCACAGTGTTCAGGATCCTGCTGAAAGTGAGCGAGCCTCAGACAAGTCGAAG  
ATGGATTCCAGTCAACCGAAAGATCTTCTAGAAGACCTCGAAGACAGAGGACCAGTGAGAGCCGTGACT  
TATGTCACATGACAAACGGGATTGACGACTGTGATGATCAACCACGAAAGAAAAGAGATCCAAGTCCGC  
CAAGAAGAAGAAGCGCTCCAAGGCCAAGCAGGAGAGGGAGGATCCCTGTGAGTTTGCCATCGATCCC  
AATGAGCCCACTACTGCTTGTGTAACCAAGTGCCTACGGGGAGATGATAGGCTGTGACAATGAACAGT  
GTCCCATGAAATGGTTTCACTTTTCATGTGTTTCACTCACCTATAAACCAAGGGGAAATGGTATTGCC  
AAAGTGTAGGGGAGACAATGAGAAAACCATGGACAAAAGTACCGAAAAGACAAAAAGGAGAGAAGAGCC  
AGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203794 representing NM\_023503  
 Red=Cloning site Green=Tags(s)

MLGQQQQQLYSSAALLTGERSRLSCYVQDYLECVELPHDMQRNVSVLRELDNKYQETLKEIDDVYEK  
 YKKEDDSNQKRLQQLRALINSQELGDEKIQIVTQMLELVENRARQMEHLSQCFQDPAESERASDKSK  
 MDSSQPERSSRRPRRQRTSESRDLCHMTNGIDDCDDQPPKEKRSKSAKKKRSKAKQEREASPVFAIDP  
 NEPTYCLCNQVSYGEMIGCDNEQCPIEFHFSCVSLTYKPKGKWCYCPKCRGDNEKTMDKSTKTKKERRA  
 R

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_023503

**ORF Size:** 843 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:** 2812 bp

**RefSeq ORF:** 846 bp

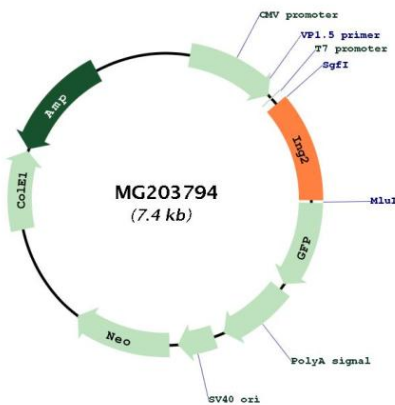
**Locus ID:** 69260

**UniProt ID:** [Q9ESK4](#)

**Cytogenetics:** 8 B1.1

**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 MG203794