

## Product datasheet for MR225175

### Ing1 (NM\_011919) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ing1 (NM_011919) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ing1
Synonyms:	2610028J21Rik; AA407184; A1875420; mING1h; p33Ing1; p37Ing1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225175 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGTTGAGTCCTGCCAACGGGGAGCAGATCCACCTGGTGAACATGTGGAGGATTACCTGGACTCAATCG  
AGTCACTGCCTTTTCGACCTGCAGAGGAACGTCTCGCTGATGCGGGAGATCGACGCCAAATACCAAGAGAT  
CCTGAAGGAGCTGGACGACTACTATGAGAAGTTCAAACGGGAGACAGACGGCACCCAGAAGCGCCGGTA  
CTGCACTGCATCCAGAGGGCCCTGATCCGCAGCCAGGAGCTAGGCGATGAGAAGATCCAGATCGTGAGTC  
AGATGGTGGAGCTGGTGGAGAACCAGCAGACAGGTGGACAGTCACGTGGAGCTCTTGAAGCACACCA  
GGACATCAGTGACGGCACTGGTGGCAGCGGCAAGGCGGGCCAGGACAAGTCGAAGAGTGAGGCCATCACA  
CAGGCAGATAAGCCGAATAACAAGCGGTCCAGGAGGCAGCGAAACAATGAGAATCGAGAGAACCGCTCGA  
ATAATCACGACCATGATGACATCACCTCAGGAACGCCAAGGAGAAGAAAGCAAAAACCTCAAAGAAGAA  
GAAACGCTCCAAGGCCAAGCAGAGAGGGGAAGCGTCTCCTGCCGACCTTCCCATCGACCCCAACGAGCCC  
ACGTAAGTGTCTGTGCAACCAGGTCTCCTACGGGGAGATGATCGGCTGTGACAACGACGAATGCCCATCG  
AGTGGTCCACTTCTCCTGCGTGGGGCTCAACCATAAACCAAGGGCAAGTGGTACTGCCCAAGTGCCG  
TGGGGAGAGCGAGAAGACCATGGACAAAGCCCTGGAGAAGTCCAAGAAAGAGAGGGCTTACAACAGG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR225175 protein sequence  
 Red=Cloning site Green=Tags(s)

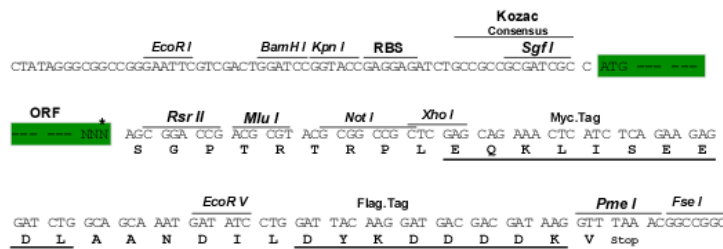
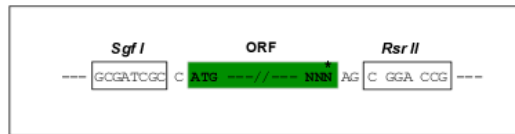
MLSPANGEQIHLVNYVEDYLDIESLPFDLQRNVSLMREIDAKYQEILKELDDYEFKFKRETDGTQKRRV  
 LHCIQRALIRSQELGDEKIQIVSQMVELVENRSRQVDSHVELFEAHQDISDGTGGSGKAGQDKSKSEAIT  
 QADKPNKRSRQRNNENRENASNNDHDDITSGTPKEKKAKTSKKKKRSKAKAEREASPADLPIDPNEP  
 TYCLCNQVSYGEMIGCDNDECEIEWFHFSCVGLNHNKPKGKWKYCPKCRGESEKTMDKALEKSKKERAYNR

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_011919

**ORF Size:** 840 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\\_011919.5](#), [NP\\_036049.2](#)

**RefSeq Size:** 2813 bp

**RefSeq ORF:** 840 bp

**Locus ID:** 26356

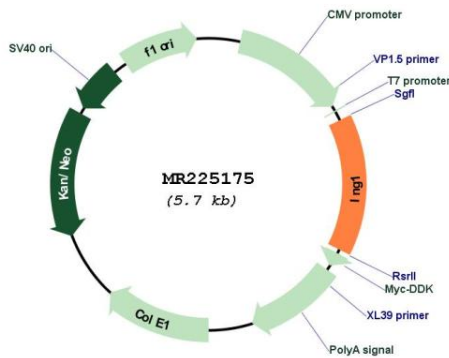
**UniProt ID:** [Q9QXV3](#)

**Cytogenetics:** 8 A1.1

**MW:** 32.1 kDa

**Gene Summary:** Isoform 1 inhibits p53-dependent transcriptional activation and may function as an oncoprotein. Isoform 2 acts as a negative growth regulator by cooperating with p53 in transcriptional activation of p53-responsive genes and may act as a tumor suppressor. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR225175