

## Product datasheet for **MR228734**

### Ing1 (NM\_001302451) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ing1 (NM\_001302451) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ing1  
**Synonyms:** 2610028J21Rik; AA407184; A1875420; mING1h; p33Ing1; p37Ing1b  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228734 representing NM\_001302451  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCGGGAGATCGACGCCAAATACCAAGAGATCCTGAAGGAGCTGGACGACTACTATGAGAAGTTCAAAC  
GGGAGACAGACGGCACCCAGAAGCGCCGGTACTGCACTGCATCCAGAGGGCCCTGATCCGCAGCCAGGA  
GCTAGGGGATGAGAAGATCCAGATCGTGAGTCAGATGGTGGAGCTGGTGGAGAACCAGCAGCAGACAGGTG  
GACAGTCACGTGGAGCTTTCGAAGCACACCAGGACATCAAGTACGGCCTGGTGGCAGCGGCAAGGCGG  
GCCAGGACAAGTGAAGAGTGAGGCCATCACACAGGCAGATAAGCCGAATAACAAGCGGTCCAGGAGGCA  
GCGAAACAATGAGAATCGAGAGAACGCGTCGAATAATCACGACCATGATGACATCACCTCAGGAACGCC  
AAGGAGAAGAAAGCAAAAACCTCAAAGAAGAAGAAACGCTCCAAGGCCAAAGCAGAGAGGGAAAGCGTCTC  
CTGCCGACCTTCCATCGACCCCAACGAGCCACGTACTGTCTGTGCAACCAGGTCTCCTACGGGAGAT  
GATCGGCTGTGACAACGACGAATGCCCCATCGAGTGGTCCACTTCTCCTGCGTGGGGCTCAACCATAAA  
CCAAAGGGCAAGTGGTACTGCCCAAGTCCCGTGGGGAGAGCGAGAAGACCATGGACAAAGCCCTGGAGA  
AGTCCAAGAAAGAGAGGGCTTACAACAGG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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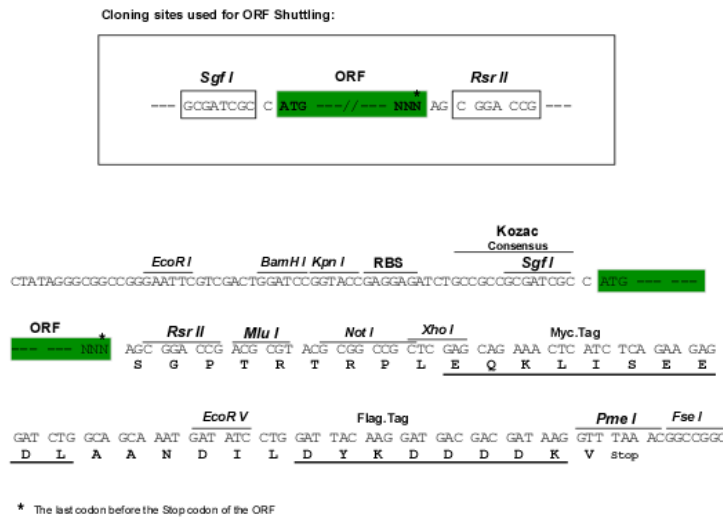
**Protein Sequence:** >MR228734 representing NM\_001302451  
 Red=Cloning site Green=Tags(s)

MREIDAKYQEILKELDDYYEKFKRETDGTQKRRVLHCIQRALIRSQELGDEKIQIVSQMVELVENRSRQV  
 DSHVELFEAHQDISDGTGGSGKAGQDKSKSEAITQADKPNNKRSRRQRNNENRENASNNDHDDITSGTP  
 KEKKAKTSKKKRSKAKAEREASPADLPIDPNEPTYCLCNQVSYGEMIGCDNDECPIEWFHFSCVGLNHHK  
 PKGKWYCPKCRGESEKTKMDKALEKSKKERAYNR

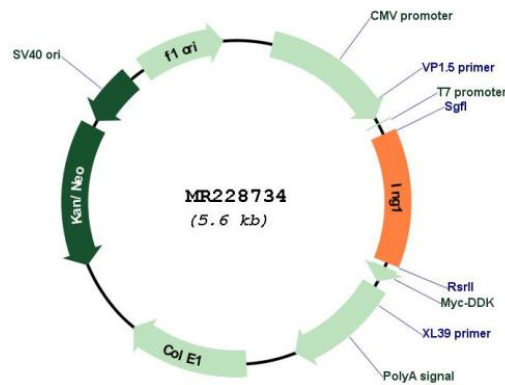
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001302451  
**ORF Size:** 729 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001302451.1</a> , <a href="#">NP_001289380.1</a>
<b>RefSeq Size:</b>	2023 bp
<b>RefSeq ORF:</b>	732 bp
<b>Locus ID:</b>	26356
<b>Cytogenetics:</b>	8 A1.1
<b>MW:</b>	28.5 kDa
<b>Gene Summary:</b>	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]