

Product datasheet for RC217700

ING1 (NM_198217) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ING1 (NM_198217) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ING1
Synonyms:	p24ING1c; p33; p33ING1; p33ING1b; p47; p47ING1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217700 representing NM_198217 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGATCCTGAAGGAGCTAGACGAGTGTACGAGCGCTTCAGTCGCGAGACAGACGGGGCGCAGAAGC
GGCGGATGCTGCACTGTGTGCAGCGCGCTGATCCGCAGCCAGGAGCTGGGCGACGAGAAGATCCAGAT
CGTGAGCCAGATGGTGGAGCTGGTGGAGAACCACGCGGCAGGTGGACAGCCACGTGGAGCTGTTGAG
GCGCAGCAGGAGCTGGGCGACACAGCGGCAACAGCGGCAAGGCTGGCGCGACAGGCCAAAGGCGAGG
CGGCAGCGCAGGCTGACAAGCCCAACAGCAAGCGCTCACGGCGCAGCGCAACAACGAGAACCCTGAGAA
CGCGTCCAGCAACCACGACCACGACGACGGCGCCTCGGGCACACCAAGGAGAAGAAGGCCAAGACCTCC
AAGAAGAAGAAGCGCTCCAAGGCCAAGGCGGAGCGAGAGGCGTCCCCTGCCGACCTCCCCATCGACCCCA
ACGAACCACGTAAGTGTCTGTGCAACCAGGTCTCCTATGGGGAGATGATCGGCTGCGACAACGACGAGTG
CCCCATCGAGTGGTTCCACTTCTCGTGCCTGGGGCTCAATCATAAACCAAGGGCAAGTGGTACTGTCCC
AAGTGCCGGGGGAGAACGAGAAGACCATGGACAAGCCCTGGAGAAATCCAAAAAGAGAGGGCTTACA
ACAGG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217700 representing NM_198217
Red=Cloning site Green=Tags(s)

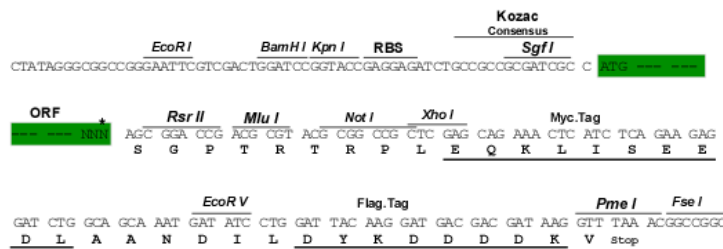
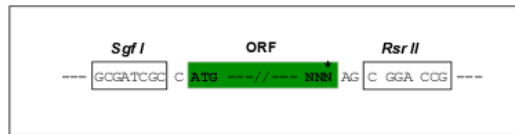
MEILKELDECYERFSRETDGAQKRRMLHCVQRALIRSQELGDEKIQIVSQMVVELVENRTRQVDSHVELFE
 AQQELGDTAGNSGKAGADRPKGEAAAQADKPNKRSRQRNENRENASSNHDDHGASGTPKEKKAKTS
 KKKRKRKAKAEREASPADLPIDPNEPTYCLCNQVSYGEMIGCDNDECEIWFHFSCVGLNHHKPKGKWCYCP
 KCRGENEKTMDKALEKSKKERAYNR

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_198217

ORF Size: 705 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_198217.2](#), [NP_937860.1](#)

RefSeq Size: 2219 bp

RefSeq ORF: 708 bp

Locus ID: 3621

UniProt ID: [Q9UK53](#)

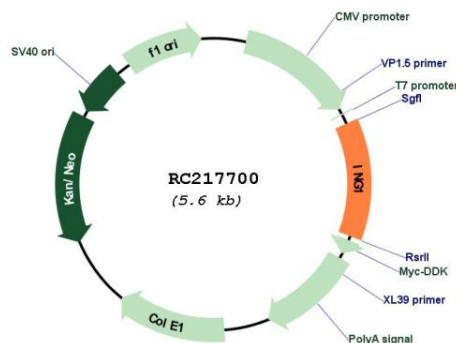
Cytogenetics: 13q34

Protein Families: Druggable Genome, Transcription Factors

MW: 26.8 kDa

Gene Summary: This gene encodes a tumor suppressor protein that can induce cell growth arrest and apoptosis. The encoded protein is a nuclear protein that physically interacts with the tumor suppressor protein TP53 and is a component of the p53 signaling pathway. Reduced expression and rearrangement of this gene have been detected in various cancers. Multiple alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC217700