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Product datasheet for RC217763

ING1 (NM_198219) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ING1 (NM_198219) 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:

>RC217763 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGAGTCCTGCCAACGGGGAGCAGCTCCACCTGGTGAACTATGTGGAGGACTACCTGGACTCCATCG
AGTCCCTGCCTTTCGACTTGCAGAGAAATGTCTCGCTGATGCGGGAGATCGACGCGAAATACCAAGAGAT
CCTGAAGGAGCTAGACGAGTGCTACGAGCGCTTCAGTCGCGAGACAGACGGGGCGCAGAAGCGGCGGATG
CTGCACTGTGTGCAGCGCGCGCTGATCCGCAGCCAGGAGCTGGGCGACGAGAAGATCCAGATCGTGAGCC
AGATGGTGGAGCTGGTGGAGAACCGCACGCGGCAGGTGGACAGCCACGTGGAGCTGTTCGAGGCGCAGCA
GGAGCTGGGCGACACAGCGGGCAACAGCGGCAAGGCTGGCGCGGACAGGCCCAAAGGCGAGGCGGCAGCG
CAGGCTGACAAGCCCAACAGCAAGCGCTCACGGCGGCAGCGCAACAACGAGAACCGTGAGAACGCGTCCA
GCAACCACGACCACGACGACGGCGCCTCGGGCACACCCAAGGAGAAGAAGGCCAAGACCTCCAAGAAGAA
GAAGCGCTCCAAGGCCAAGGCGGAGCGAGAGGCGTCCCCTGCCGACCTCCCCATCGACCCCAACGAACCC
ACGTACTGTCTGTGCAACCAGGTCTCCTATGGGGAGATGATCGGCTGCGACAACGACGAGTGCCCCATCG
AGTGGTTCCACTTCTCGTGCGTGGGGCTCAATCATAAACCCAAGGGCAAGTGGTACTGTCCCAAGTGCCG
GGGGGAGAACGAGAAGACCATGGACAAAGCCCTGGAGAAATCCAAAAAAGAGAGGGCTTACAACAGG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC217763 protein sequence
Red=Cloning site Green=Tags(s)

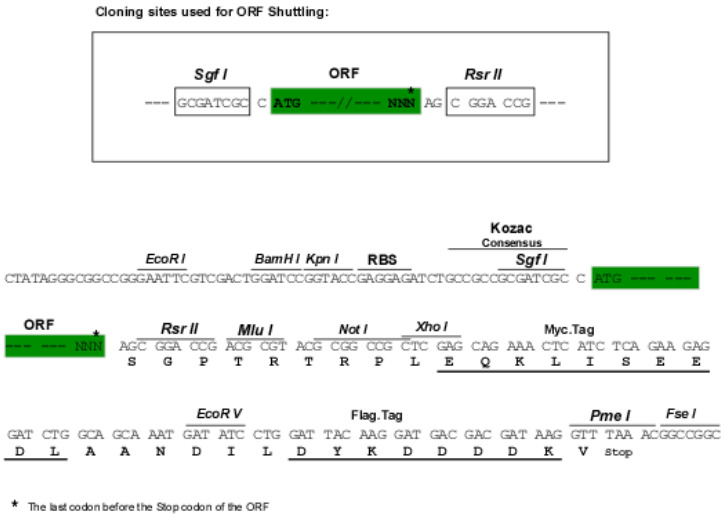
MLSPANGEQLHLVNYVEDYLDSIESLPFDLQRNVSLMREIDAKYQEILKELDECYERFSRETDGAQKRRM
LHCVQRALIRSQELGDEKIQIVSQMVELVENRTRQVDSHVELFEAQQELGDTAGNSGKAGADRPKGEAAA
QADKPNSKRSRRQRNNENRENASSNHDHDDGASGTPKEKKAKTSKKKKRSKAKAEREASPADLPIDPNEP
TYCLCNQVSYGEMIGCDNDECPIEWFHFSCVGLNHKPKGKWYCPKCRGENEKTMDKALEKSKKERAYNR

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6616_f03.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_198219

ORF Size: 837 bp

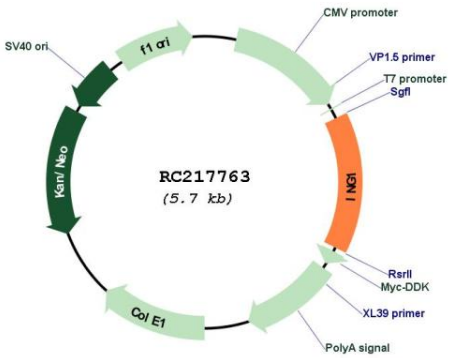
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

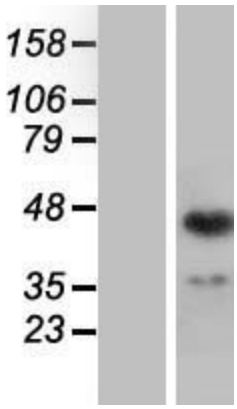
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_198219.3
RefSeq Size:	2887 bp
RefSeq ORF:	840 bp
Locus ID:	3621
UniProt ID:	Q9UK53
Cytogenetics:	13q34
Protein Families:	Druggable Genome, Transcription Factors
MW:	31.9 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]

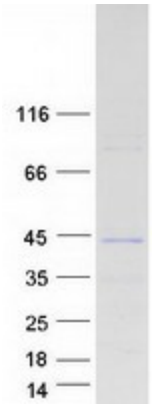
Product images:



Circular map for RC217763



Western blot validation of overexpression lysate (Cat# [LY404951]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217763 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ING1 protein (Cat# [TP317763]). The protein was produced from HEK293T cells transfected with ING1 cDNA clone (Cat# RC217763) using MegaTran 2.0 (Cat# [TT210002]).