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Product datasheet for RC217947

INCA1 (NM_213726) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	INCA1
Synonyms:	HSD45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC217947 representing NM_213726
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGGTGCAGGATGATGGAGTCAACCTCATCCCCTTTGCCAAGTGTTCCAGGGTGGTCAGCCGATCTC
CACCCCCAAGGTTGCCTTCCCAGAGCCTCAGACCCATGCCCCAGCGTTATGGAGATGTCTTCTGGAAGAA
CCTTAATCAAAGGCCCACCCCCACTTGGCTGGAGGAGCAGCACATTCCACCCATGCTGCTCCCACCCCCT
GAAATGCTTTGGAGAAGAAAGAAGAGGAGGCCATGTTTGGAAGGAATGCAGCAGCAGGGCCTTGGGGGAG
TCCCCGCCCGGGTGAGGGCTGTCACTTACCACCTGGAGGACCTAAGAAGGCGTCAGAGCATCATCAACGA
ACTGAAGAAGGCCCAGTGGGGCAGCTCTGGGGCTGCATCTGAGCCAGTGGTGCTTGGCGAAGAGGGCTGT
GGATTCCCCAGCACCAATGAATACCCTGATCTGGAAGAGGAGAGAGCAACCTATCCACAGGAAGAGGACC
GTTTTCTCACTCCTGGCAGGGCCCAGCTGCTTTGGTCTCCCTGGAGCCCCCTGGATCAGGAGGAGGCTTG
TGCCTCCAGGCAGCTGCACTCTCTGGCCTCGTTCAGCACTGTCACAGCCAGAAGGAACCCCCTTCACAAT
CCCTGGGGGATGGAGTTGGCAGCGTCTGAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC217947 representing NM_213726
Red=Cloning site Green=Tags(s)

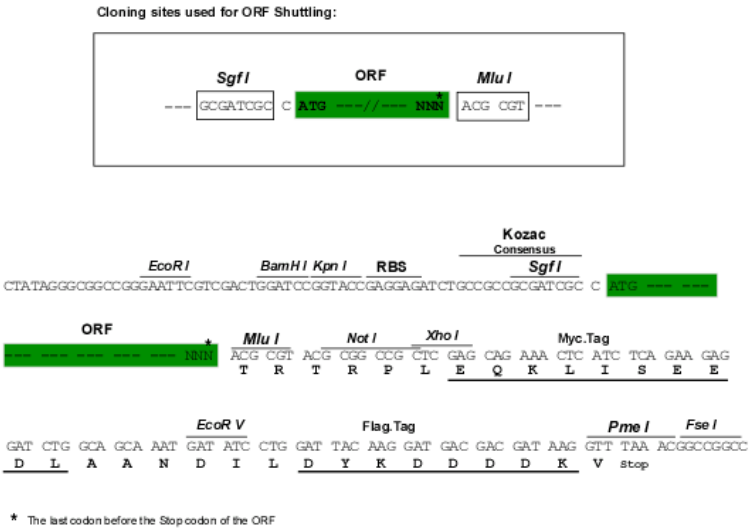
MQVQDDGVNLIPFAKCSRVVSRSPPPRLPSQSLRPMPQRYGDVFWKNLNQRPTPTWLEEQHIPPMLLPPP
EMLWRRKKRRPCLEGMQQQGLGGVPARVRAVTYHLEDLRRRQSIINELKKAQWGSSGAASEPVVLGEEGC
GFPSTNEYPDLEEERATYPQEEDRFLTPGRAQLLWSPWSPLDQEEACASRQLHSLASFSTVTARRNPLHN
PWGMELAASEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8016_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_213726

ORF Size: 663 bp

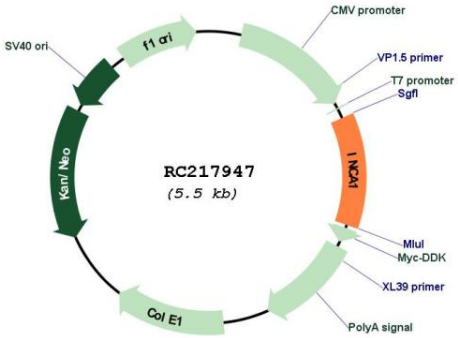
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

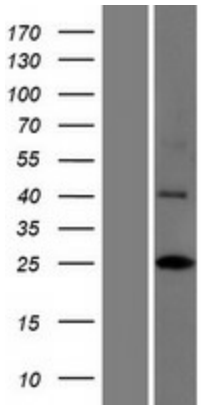
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_213726.2, NP_998891.2
RefSeq Size:	1383 bp
RefSeq ORF:	666 bp
Locus ID:	388324
UniProt ID:	Q0VD86
Cytogenetics:	17p13.2
MW:	25 kDa
Gene Summary:	Binds to CDK2-bound cyclins and inhibits the kinase activity of CDK2; binding to cyclins is critical for its function as CDK inhibitor (PubMed:21540187). Inhibits cell growth and cell proliferation and may play a role in cell cycle control (By similarity). Required for ING5-mediated regulation of S-phase progression, enhancement of Fas-induced apoptosis and inhibition of cell growth (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC217947



Western blot validation of overexpression lysate (Cat# [LY403740]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217947 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).