

Product datasheet for RC202827

ING4 (NM_016162) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ING4 (NM_016162) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ING4
Synonyms:	my036; p29ING4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202827 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCTGCGGGGATGATTTGGAACATTATCTGGACAGTATTGAAAACCTTCCCTTTGAATTACAGAGAACTTTTCAGCTCATGAGGGACCTAGACCAAAGAACAGAGGACCTGAAGGCTGAAATTGACAAGTTGGCCACTGAGTATATGAGTAGTCCCGCAGCCTGAGCTCCGAGGAAAAATTGGCCCTTCTCAAACAGATCCAGGAAGCCTATGGCAAGTCAAGGAATTTGGTGACGACAAGGTGCAGCTTGCCATGCAGACCTATGAGATGGTGGACAAACACATTCGCGGGCTGGACACAGACCTGGCCGTTTTGAGGCTGATCTCAAGGAGAAACAGATTGAGTCAAGTGACTATGACAGCTCTTCCAGCAAAGGCAAAAAGAAAGCCGGACTCAAAGGAGAAGAAAGCTGCTCGTGCTCGTTCCAAAGGGAAAACTCGGATGAAGAAGCCCCAAGACTGCCAGAAGAAGTTAAAGCTCGTGCGCACAAGTCCTGAGTATGGGATGCCCTCAGTGACCTTTGGCAGTGTCCACCCCTCTGATGTGTTGGATATGCCTGTGGATCCCAACGAACCCACCTATTGCCTTTGTCACCAGGTCTCCTATGGAGAGATGATTGGCTGTGACAACCCTGATTGTTCCATTGAGTGTTCCATTTTGCCTGTGTGGGGCTGACAACCAAGCCTCGGGGAAATGGTTTTGCCACGCTGCTCCAAGAACGGAAGAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202827 protein sequence
Red=Cloning site Green=Tags(s)

MAAGMYLEHYLDSIENLPFELQRNFQLMRDL DQRTEDLKAEIDKLATEYMSSARLS SSEEK LALLKQIQE
 AYGKCKEFGDDKVQLAMQTYEMVDKHIRRLD TDLARFEADLKEKQIESSDYDSSSSK GKKKGRTQKEKKA
 ARARSKGKNSDEEAPKTAQK LKLVRTSPEYGMPSVTFG SVHPSDVLDMPVDPNEPTYCLCHQVSYGEMI
 GCDNPDCSIEWFHFACVGLTTKPRGKWF CPRCSQERKKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6194_g09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016162

ORF Size: 747 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_016162.1](#)

RefSeq Size: 1458 bp

RefSeq ORF: 747 bp

Locus ID: 51147

UniProt ID: [Q9UNL4](#)

Cytogenetics: 12p13.31

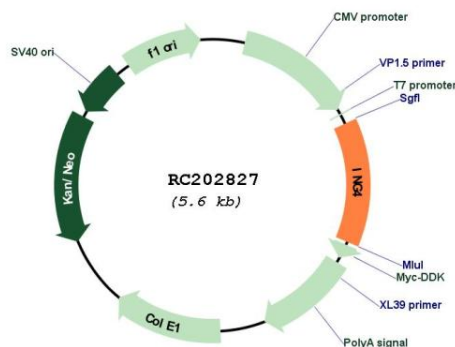
Domains: PHD

Protein Families: Druggable Genome, Transcription Factors

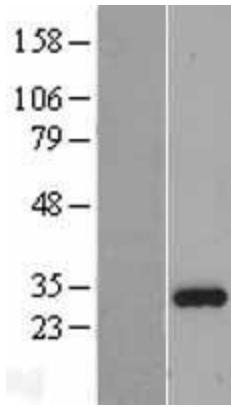
MW: 28.5 kDa

Gene Summary: This gene encodes a tumor suppressor protein that contains a PHD-finger, which is a common motif in proteins involved in chromatin remodeling. This protein can bind TP53 and EP300/p300, a component of the histone acetyl transferase complex, suggesting its involvement in the TP53-dependent regulatory pathway. Multiple alternatively spliced transcript variants have been observed that encode distinct proteins. [provided by RefSeq, Jul 2008]

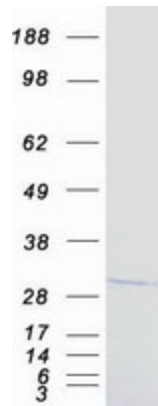
Product images:



Circular map for RC202827



Western blot validation of overexpression lysate (Cat# [LY402512]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202827 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ING4 protein (Cat# [TP302827]). The protein was produced from HEK293T cells transfected with ING4 cDNA clone (Cat# RC202827) using MegaTran 2.0 (Cat# [TT210002]).