

Product datasheet for **RC236845**

ING2 (NM_001291959) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ING2 (NM_001291959) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ING2
Synonyms:	ING1L; p33ING2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC236845 representing NM_001291959 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGATCAGGACGGCGATCAGCAGCTCGGACCGTCGCGGATCCTGGCTCCGCAAACGTTAAAGGAAATTG
ATGATGTCTACGAAAAATAAGAAAGAAGATGATTTAAACCAGAAGAAACGTCTACAGCAGCTTCTCCA
GAGAGCACTAATTAATAGTCAAGAATTGGGAGATGAAAAATACAGATTGTTACACAAATGCTCGAATTG
GTGGAAAATCGGGCAAGACAAATGGAGTTACACTCACAGTGTTCGAAGATCCTGCTGAAAAGTGAACGAG
CCTCAGATAAAGCAAAGATGGATTCCAGCCAACCAGAAAGATCTTCAAGAAGACCCCGCAGGCAGCGGAC
CAGTGAAGCCGTGATTTATGTCACATGGCAAATGGGATTGAAGACTGTGATGATCAGCCACCTAAAGAA
AAGAAATCCAAGTCAGCAAAGAAAAAGAAACGCTCCAAGGCCAAGCAGGAAAGGGAAGCTTACCTGTTG
AGTTTGAATAGATCCTAATGAACCTACATACTGCTTATGCAACCAAGTGTCTTATGGGGAGATGATAGG
ATGTGACAATGAACAGTGTCCAATTGAATGGTTTCACTTTTCATGTGTTTCACTTACCTATAAACCAAAG
GGGAAATGGTATTGCCAAAGTGCAGGGGAGATAATGAGAAAACAATGGACAAAAGTACTGAAAAGACAA
AAAAGGATAGAAGATCGAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236845 representing NM_001291959
Red=Cloning site Green=Tags(s)

MDQDGDQQLGPSRILAPQTLKEIDDVYEKYYKKEDDLNQQKRLQQLLQRALINSQELGDEKIQIVTQMLEL
 VENRARQME LHSQCFQDPAESERASDKAKMDSSQPERSRRPRRQRTSESRDLCHMANGIEDCDDQPPKE
 KKSKSAKKKKRSKAKQEREASPVFAIDPNEPTYCLCNQVSYGEMIGCDNEQCPIEWFHFSCVSLTYKPK
 GKWYCPKCRGDNEKTMDKSTETKKDRRSR

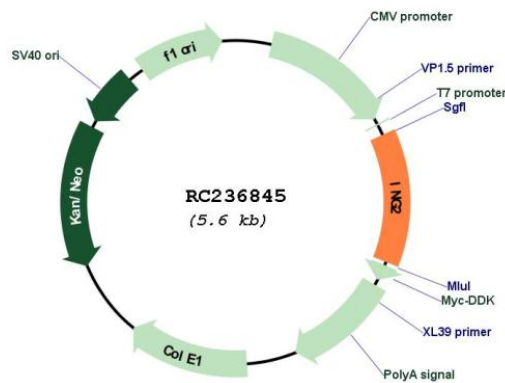
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291959

ORF Size: 720 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:	<ol style="list-style-type: none">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_001291959.1 , NP_001278888.1
RefSeq Size:	2384 bp
RefSeq ORF:	723 bp
Locus ID:	3622
UniProt ID:	Q9H160
Cytogenetics:	4q35.1
Protein Families:	Druggable Genome, Transcription Factors
MW:	28.4 kDa
Gene Summary:	This gene is a member of the inhibitor of growth (ING) family. Members of the ING family associate with and modulate the activity of histone acetyltransferase (HAT) and histone deacetylase (HDAC) complexes and function in DNA repair and apoptosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]