

Product datasheet for SC128111

ING3 (NM_019071) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	ING3
Synonyms:	Eaf4; ING2; MEAF4; p47ING3
Mammalian Cell	None
Selection:	
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_019071 edited
TACCATGTTGTACCTAGAAAGACTATCTGGAAATGATTGAGCAGCTTCCTATGGATCTGCG
GGACCGCTTCACGGAAATGCGCGAGATGGACCTGCAGGTGCAGAAATGCAATGGATCAACT
AGAACAAAGAGTCAGTGAATCTTTATGAATGCAAGAAAAATAAACCTGAGTGGAGGGA
AGAGCAAAATGGCATCCATCAAAAAAGACTACTATAAAGCTTTGGAAGATGCAGATGAGAA
GGTTCAGTTGGCAAACAGATATATGACTTGGTAGATCGACACTTGAGAAAGCTGGATCA
GGAAGCTGGCTAAGTTTAAATGGAGCTGGAAGCTGATAATGCTGGAATTACAGAAATATT
AGAGAGGCGATCTTTGGAATTAGACACTCCTTCACAGCCAGTGAACAATCACCATGCTCA
TTCACATACTCCAGTGGAAAAAGGAAATATAATCCAACCTCTCACCATACGACAACAGA
TCATATTCCTGAAAAGAAATTTAAATCTGAAGCTCTTCTATCCACCCTTACGTCAGATGC
CTCTAAGGAAAATACACTAGGTTGTGAAATAATAATCCACAGCCTCTTCTAACAATGC
CTACAATGTGAATTCCTCCCAACCTCTGGGATCCTATAACATTGGCTCGTTATCTTCAGG
AACTGGTGCAGGGCAATTACCATGGCAGCTGCTCAAGCAGTTCAAGCTACAGCTCAGAT
GAAGGAGGGACGAAGAATCAAGTTTAAAGCCAGTTATGAAGCATTTAAGAATAATGA
CTTTCAGTTGGGAAAAGAATTTCAATGGCCAGGGAACAGTTGGCTATTCATCATCTTC
GGCACTTATGACAACATTAACACAGAATGCCAGTTCATCAGCAGCCGACTCACGGAGTGG
TCGAAAGAGCAAAAACAACAAGTCTTCAAGCCAGCAGTCATCATCTTCCTCCTCCTC
TTCTTCCTTATCATCGTGTCTTCATCATCAACTGTTGTACAAGAAATCTCAACAAAC
AACTGTAGTGCCAGAATCTGATTCAAATAGTCAGGTTGATTGGACTTACGACCCAAATGA
ACCTCGATACTGCAATTTGAATCAGGTATCTTATGGTGAGATGGTGGGATGTGATAACCA
AGATTGCCCTATAGAATGGTTCCATTATGGCTGCGTTGGATTGACAGAGGCACCAAAAGG
CAAATGGTACTGTCCAGTGCAGTCTGCAATGAAGAGAAGAGGCAGCAGACACAAATA
AAGGTGGTCTTTTGTGTTGATGAAGAAATAAACTTCAGCTGAAGATTTTATATAGGACTT
TAAAAAGAAGAGAAGAGAAGAAAGAAACAATGCATTTCCAGGCAACCACTTAAAGGATTT



5' Read Nucleotide

>OriGene 5' read for NM_019071 unedited

Sequence:

GGAGTTCACAATTGTATACGACTCACTATAGCGCGCCGCGNATTCAAATCTGGTACCAC
GTTGTACCTAGAAGACTATCTGGAATGATTGAGCAGCTTCTATGGATCTGCGGGACCGC
TTCACGAAATGCGCGAGATGGACCTGCAGGTGCAGAATGCAATGGATCAACTAGAACAA
AGAGTCAGTGAATTCTTTATGAATGCAAGAAAAATAAACCTGAGTGGAGGGAAGAGCAA
ATGGCATCCATCAAAAAAGACTACTATAAAGCTTTGGAAGATGCAGATGAGAAGGTTGAG
TTGGCAAACCAAGATATATGCTTTGGTAGATCGACACTTGAGAAAGCTGGATCAGGAAGTG
CTGAAGTTTAAATGGAGCTGGAAGCTGATAAGCTGGAATTACAGAAATATTAGAGAGG
CGATCTTTGGAATTAGACACTCCTTCACAGCGGTGAACAATCACCATGCTATTACAT
ACTCCAGTGGAAAAAGGAAATATAATCCAACCTTCTACCATACGACAACAGATCATATT
CCTGAAAAGAAATTTAAATCTGAAGCTCTTCTATCCACCCTTACGTGAGATGCCTCTAAG
GAAAATACACNTANGTTGCGAAATAATAATTCCACAGCCTCTTCTAACAATGCCTACAA
TGTGAATTCCTCCACCTCTGGGATCCTATAACATTGGCTCGTTATCTTCAGGAAGTGGT
GCAGGGGCAATTACCATGGCAGCTGTNCAAGCAGTTACGGCTACAGCTCAGATGAAAGAG
GNACGAAGAAACATCAAGTTAANAGCCAGTTATGAAGCATTTAAGATAATGACTTTGAGT
TGGGAAAAAGATTTCATGGCCAGGGAAACAGTTGGCTATTATCATCATCTTCGCACTTATG
ACGAAAT

3' Read Nucleotide

>OriGene 3' read for NM_019071 unedited

Sequence:

NNCCATGGAATGCACTTCCAGGNCACAGNANAGCACTGGGNGAGGTCACAGGGATGCC
 ACCCGGGATCTGTTCAAGAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGAAATCCT
 TTAAGTGGTTGCCTGGAATGCAATGTTTCTTCTTCTCTTCTCTTTTAAAGTCC
 ATATAAAATCTTCAGCTGAAGTTATTTCTTCATCAACAAAGGACCACCTTTATTTGT
 GTCTGCTGCCTTCTTCTTCATTGCAGCAGTGCACTGTGGACAGTACCATTGCTCTTTG
 GTCCTCTGCTCAATCCAACGCGCCATAATGGAACCTTCTATGGGCAATCTTGTTAT
 CATCATCCCACCATCTCACCATAAGATACTGATTACAATGCAGTATCGAGGTTCAATTG
 GGTGTAAGTCCAATCAACCTGACTATTTGAATCAGATTCTGGCACTACAGTTGTTTGT
 GAGAGATTTCTTGACAACAGTTGATGATGAAGAACACGATGATAAGGAAGAAGAGGAG
 AGGAAGATGATGACTGCTGGCTTGAAGACTTGTGTGTTTTGCTCTTCGACCACTCC
 GTGAGTCGCTGCTGATGAACGGCATTCTGTGTTAATGTTGTCTAAGTGCCGAAGATG
 ATGAATAGCAACTGTTTCCCTGGCCATTGAAATTTCTTTCCCAACTGAAAGTCATTAT
 TCTTAATGCTTCAATACTGGCTTTTAACTTGATGTTCTTCGCTCCCTCTTCACTGAG
 CTGTAGCCTGAACGCTTGAGCAGCTGCCATGGTAATGCCCTGCACCAAGTCTCTGAG
 CAAGGAGCCAATGTTATANGATCCCCANAGGTTGGGAGGAATTCACATTGNTAGCA

Restriction Sites:

Please inquire

ACCN:

NM_019071

Insert Size:

1400 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_019071.2, NP_061944.2</u>
RefSeq Size:	2221 bp
RefSeq ORF:	1257 bp
Locus ID:	54556
UniProt ID:	<u>Q9NXR8</u>
Cytogenetics:	7q31.31
Domains:	PHD
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	The protein encoded by this gene is similar to ING1, a tumor suppressor protein that can interact with TP53, inhibit cell growth, and induce apoptosis. This protein contains a PHD-finger, which is a common motif in proteins involved in chromatin remodeling. This gene can activate p53 trans-activated promoters, including promoters of p21/waf1 and bax. Overexpression of this gene has been shown to inhibit cell growth and induce apoptosis. Allelic loss and reduced expression of this gene were detected in head and neck cancers. Two alternatively spliced transcript variants encoding different isoforms have been observed. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).