

## Product datasheet for **SC109351**

### ING1 (NM\_198218) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ING1 (NM_198218) Human Untagged Clone
Tag:	Tag Free
Symbol:	ING1
Synonyms:	p24ING1c; p33; p33ING1; p33ING1b; p47; p47ING1a
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_198218, the custom clone sequence may differ by one or more nucleotides

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ATGCTGCACTGTGTGCAGCGCGCTGATCCGCAGCCAGGAGCTGGGCGACGAGAAGATCCAGATCGTGA
GCCAGATGGTGGAGCTGGTGGAGAACCGCACGCGGCAGGTGGACAGCCACGTGGAGCTGTTTCGAGGCGCA
GCAGGAGCTGGGCGACACAGCGGCAACAGCGGCAAGGCTGGCGCGGACAGGCCAAAGGCGAGGCGGCA
GCGCAGGCTGACAAGCCCAACAGCAAGCGCTCACGGCGGACGCGCAACAACGAGAACCGTGAGAACGCGT
CCAGCAACCACGACCACGACGACGGCGCCTCGGGCACACCCAAGGAGAAGAAGGCCAAGACCTCCAAGAA
GAAGAAGCGCTCCAAGGCCAAGGCGGAGCGAGAGGCGTCCCCTGCCGACCTCCCCATCGACCCCAACGAA
CCCACGTACTGTCTGTGCAACCAGGTCTCCTATGGGGAGATGATCGGCTGCGACAACGACGAGTGCCCCA
TCGAGTGGTTCCACTTCTCGTGCGTGGGGCTCAATCATAAACCCAAGGGCAAGTGGTACTGTCCCAAGTG
CCGGGGGAGAACGAGAAGACCATGGACAAGCCCTGGAGAAATCCAAAAAGAGAGGGCTTACAACAGG
TAG
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_198218 unedited GTCAGATTTTGTAAACGACTTCACTATAGGGCGGCCGCGATTCCGGCACCAGGTCCTGCC AACGGGGAGCAGCTCCACCTGGTGAACATGTGGAGGACTACCTGGACTCCATCGAGTCC CTGCCTTTTCGACTTGACAGAGAAATGTCTCGCTGATGCGGGAGATCGACGCGAAATACCAA GAGATCCTGAAGGAGCTAGACGAGTGCTACGAGCGCTTCAGTCGCGAGACAGACGGGGCG CAGAAGCGGGGATGCTGCACTGTGTGCAGCGCGCTGATCCGCAGCCAGGAGCTGGGC GACGAGAAGATCCAGATCGTGAGCCAGATGGTGGAGCTGGTGGAGAACCACGCGCGCAG GTGGACAGCCACGTGGAGCTGTTTCGAGGCGCAGCAGGAGCTGGGCGACACAGCGGCAAC AGCGGCAAGGCTGGCGCGACAGGCCAAAGGCGAGGCGCAGCCAGGCTGACAAGCCC AACAGCAAGCGCTCACGGCGGCAGCGCAACAACGAGAACCCTGAGAACGCGTCCAGCAAC CACGACCACGACGACGGCGCCTCGGGCACACCAAGGAGAAGAAGGCCAAGACCTCCAAG AAGAAGAAGCGCTCCAAGGCCAAGGCGGAGCGAGAGGCGTCCCCTGCCGACCTCCCATC GACCCCAACGAACCCACGTACTGTCTGTGCAACCAGGTCTCTATGGGGAGATGATCGGC TGCACACGACGAGTGCCCATCGAGTGGTTCCACTTCTCGTGCGTGGGGCTCAATCATA NACCCAAAGGGCAGTGGTACTGTCCAAGTGCCGNGGGGAGACGAGAAGACCTGTACAAA GCCTGGAAANTCCANAAAGAGAGGGCTACACAGGGTAGTTGTGACAGCGCTGGTGTGA GGAGACAATAAACCGTGTATTATACATGCTGCCTTGNTGAGTGCAGGAGGTAATAATATT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_198218
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_198218.1</a> , <a href="#">NP_937861.1</a>
<b>RefSeq Size:</b>	2213 bp
<b>RefSeq ORF:</b>	633 bp
<b>Locus ID:</b>	3621
<b>UniProt ID:</b>	<a href="#">Q9UK53</a>
<b>Cytogenetics:</b>	13q34
<b>Protein Families:</b>	Druggable Genome, Transcription Factors

**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]

Transcript Variant: This variant (2) differs in the 5' end-region and uses a downstream in-frame start codon, compared to variant 4. The resulting isoform (B) has a shorter N-terminus, as compared to isoform D.