

## Product datasheet for **SC334739**

### ING2 (NM\_001291959) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ING2 (NM_001291959) Human Untagged Clone
Tag:	Tag Free
Symbol:	ING2
Synonyms:	ING1L; p33ING2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001291959, the custom clone sequence may differ by one or more nucleotides

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ATGGATCAGGACGGCGATCAGCAGCTCGGACCGTCGCGGATCCTGGCTCCGCAAACGTTAAAGGAAATTG
ATGATGTCTACGAAAAATATAAGAAAGAAGATGATTTAAACCAGAAGAAACGCTCTACAGCAGCTTCTCCA
GAGAGCACTAATTAATAGTCAAGAATTGGGAGATGAAAAAATACAGATTGTTACACAAATGCTCGAATTG
GTGGAAAATCGGGCAAGACAAATGGAGTTACACTCACAGTGTTCCTCAAGATCCTGCTGAAAGTGAACGAG
CCTCAGATAAAGCAAAGATGGATTCCAGCCAACCAGAAAGATCTTCAAGAAGACCCCGCAGGCAGCGGAC
CAGTAAAAGCCGTGATTTATGTCACATGGCAAATGGGATTGAAGACTGTGATGATCAGCCACCTAAAGAA
AAGAAATCCAAGTCAGCAAAGAAAAAGAAACGCTCCAAGGCAAGCAGGAAAGGGAAGCTTCACCTGTTG
AGTTTGCAATAGATCCTAATGAACCTACATACTGCTTATGCAACCAAGTGTCTTATGGGGAGATGATAGG
ATGTGACAATGAACAGTGTCCAATTGAATGGTTTTCACTTTTCATGTGTTTCACTTACCTATAAACCAAAG
GGGAAATGGTATTGCCAAAGTGCAGGGGAGATAATGAGAAAACAATGGACAAAAGTACTGAAAAGACAA
AAAAGGATAGAAGATCGAGGTAG
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001291959
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).



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<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>	<u>NM_001291959.1, NP_001278888.1</u>
<b>RefSeq Size:</b>	2384 bp
<b>RefSeq ORF:</b>	723 bp
<b>Locus ID:</b>	3622
<b>UniProt ID:</b>	<u>Q9H160</u>
<b>Cytogenetics:</b>	4q35.1
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) contains an alternate 5' terminal exon, resulting in translation initiation from an alternate start codon, compared to variant 1. It encodes isoform 2, which is shorter and has a distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>