

Product datasheet for **RG202478**

ING2 (NM_001564) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ING2 (NM_001564) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ING2
Synonyms:	ING1L; p33ING2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202478 representing NM_001564 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTAGGGCAGCAGCAGCAACTGTACTCGTGGCTGCGCTCCTGACCGGGAGCGGAGCCGGCTGC
TCACCTGCTACGTGCAGGACTACCTTGAGTGGTGGAGTCGCTGCCCCACGACATGCAGAGGAACGTGTC
TGTGCTGCGAGAGCTGGACAACAAATATCAAGAAACGTTAAAGGAAATTGATGATGTCTACGAAAAAT
AAGAAAGAAGATGATTTAAACCAGAAGAAACGTCTACAGCAGCTTCTCCAGAGAGCACTAATTAATAGTC
AAGAATTGGGAGATGAAAAATACAGATTGTTACACAAATGCTCGAATTGGTGGAAAATCGGGCAAGACA
AATGGAGTTACACTCACAGTGTTTCCAAGATCCTGCTGAAAGTGAACGAGCCTCAGATAAAGCAAAGATG
GATTCAGCCAACCCAGAAAGATCTTCAAGAAGACCCCGCAGGCAGCGGACCAGTGAAGCCGTGATTTAT
GTCACATGGCAAAATGGGATTGAAGACTGTGATGATCAGCCACCTAAAGAAAAAGAAATCCAAGTCAGCAAA
GAAAAAGAAACGCTCCAAGGCCAAGCAGGAAAGGGAAGCTTACCTGTTGAGTTTGCAATAGATCCTAAT
GAACCTACATACTGCTTATGCAACCAAGTGTCTTATGGGGAGATGATAGGATGTGACAATGAACAGTGTC
CAATTGAATGGTTTCACTTTTCATGTGTTTCACTTACCTATAAACCAAGGGGAAATGGTATTGCCCAAA
GTGCAGGGGAGATAATGAGAAAAAATGGACAAAAGTACTGAAAAGACAAAAAAGGATAGAAGATCGAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202478 representing NM_001564
 Red=Cloning site Green=Tags(s)

MLGQQQQQLYSSAALLTGERSRLLTCYVQDYLECVESLPHDMQRNVSVLRELDNKYQETLKEIDDVYEKY
 KKEDDLNQQKRLQQLLQRALINSQELGDEKIQIVTQMLELVENRARQEMELHSQCFQDPAESERASDKAKM
 DSSQPERSSRRPRRQRTSESRDLCHMANGIEDCDDQPPKEKKSASAKKKRKSQKQEREASPVFEAIDPN
 EPTYCLCNQVSYGEMIGCDNEQCPIEWFHFSCVSLTYKPKGKWYCPKCRGDNEKTMDKSTKTKKDRRSR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001564

ORF Size: 840 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_001564.2](#), [NP_001555.1](#)

RefSeq Size: 1135 bp

RefSeq ORF: 843 bp

Locus ID: 3622

UniProt ID: [Q9H160](#)

Cytogenetics: 4q35.1

Domains: PHD

Protein Families: Druggable Genome, Transcription Factors

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]

Product images:



Circular map for RG202478