

Product datasheet for **RG236845**

ING2 (NM_001291959) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ING2 (NM_001291959) 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:	>RG236845 representing NM_001291959. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATCAGGACGGCGATCAGCAGCTCGGACCGTCGCGGATCCTGGCTCCGCAAACGTTAAAGGAAATT
GATGATGTCTACGAAAAATATAAGAAAGAAGATGATTTAAACCAGAAGAAACGTCTACAGCAGCTTCTC
CAGAGAGCACTAATTAATAGTCAAGAATTGGGAGATGAAAAATACAGATTGTTACACAAATGCTCGAA
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CGAGCCTCAGATAAAGCAAAGATGGATTCCAGCCAACCAGAAAGATCTTCAAGAAGACCCCGCAGGCAG
CGGACCAGTGAAAGCCGTGATTTATGTACATGGCAAATGGGATTGAAGACTGTGATGATCAGCCACCT
AAAGAAAAGAAATCCAAGTCAGCAAAGAAAAGAAACGCTCCAAGGCCAAGCAGGAAAGGAAGCTTCA
CCTGTTGAGTTTGCAATAGATCCTAATGAACCTACATACTGCTTATGCAACCAAGTGTCTTATGGGGAG
ATGATAGGATGTGACAAATGAACAGTGTCCAATTGAATGGTTTCACTTTTCATGTGTTTCACTTACCTAT
AAACCAAGGGGAAATGGTATTGCCAAAGTGCAGGGGAGATAATGAGAAAAAATGGACAAAAGTACT
GAAAAGACAAAAAAGGATAGAAGATCGAGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



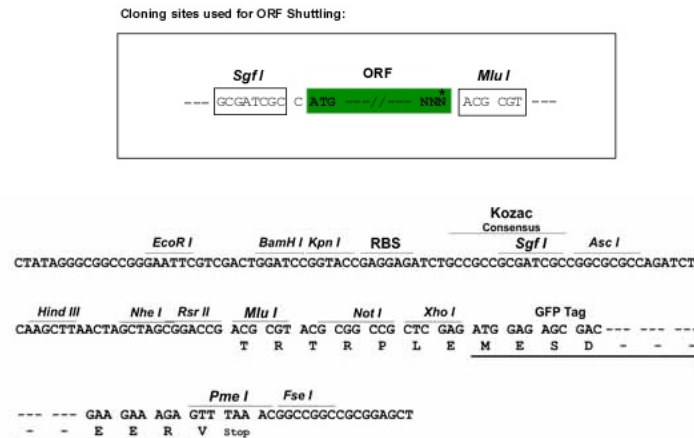
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Protein Sequence: >Peptide sequence encoded by RG236845
 Blue=ORF Red=Cloning site Green=Tag(s)

MDQDGDQQLGPSRILAPQTLKEIDDVYEKYYKEDDLNQQKRLQQLLQRALINSQELGDEKIQIVTQMLE
 LVENRARQMEHLSQCFQDPAESERASDKAKMDSSQPERSRRRPRRQRTSESRDLCHMANGIEDCDDQPP
 KEKKSASAKKKRKSAAKQEREASPVFAIDPNEPTYCLCNQVSYGEMIGCDNEQCPIEWFHFSCVSLTY
 KPKGKWYCPKCRGDNEKTMDKSTKTKKDRRSR
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

RefSeq: [NM_001291959.1](#), [NP_001278888.1](#)

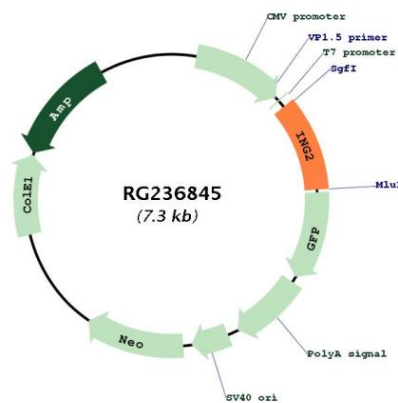
RefSeq Size: 2384 bp

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]

Product images:



Circular map for RG236845