

Product datasheet for RC202478

ING2 (NM_001564) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: ING2 (NM_001564) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: ING2

Synonyms: ING1L; p33ING2

Mammalian Cell N

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC202478 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202478 protein sequence

Red=Cloning site Green=Tags(s)

MLGQQQQQLYSSAALLTGERSRLLTCYVQDYLECVESLPHDMQRNVSVLRELDNKYQETLKEIDDVYEKY KKEDDLNQKKRLQQLLQRALINSQELGDEKIQIVTQMLELVENRARQMELHSQCFQDPAESERASDKAKM DSSQPERSSRRPRRQRTSESRDLCHMANGIEDCDDQPPKEKKSKSAKKKKRSKAKQEREASPVEFAIDPN EPTYCLCNQVSYGEMIGCDNEQCPIEWFHFSCVSLTYKPKGKWYCPKCRGDNEKTMDKSTEKTKKDRRSR

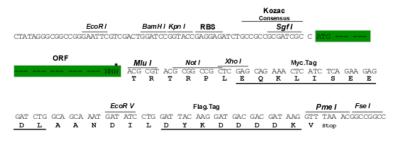
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6064 h06.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

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: <u>NM 001564.4</u>

RefSeq Size: 2465 bp **RefSeq ORF**: 843 bp

Locus ID: 3622

UniProt ID: Q9H160
Cytogenetics: 4q35.1
Domains: PHD

Protein Families: Druggable Genome, Transcription Factors

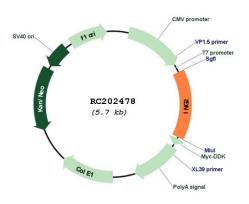
MW: 32.8 kDa

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

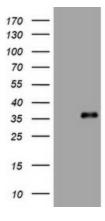
results in multiple transcript variants. [provided by RefSeq, May 2014]

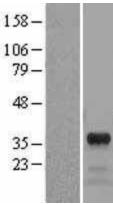
Product images:

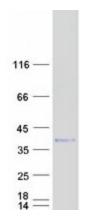


Circular map for RC202478









HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ING2 (Cat# RC202478, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ING2(Cat# [TA800661]). Positive lysates [LY419856] (100ug) and [LC419856] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY419856]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202478 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified ING2 protein (Cat# [TP302478]). The protein was produced from HEK293T cells transfected with ING2 cDNA clone (Cat# RC202478) using MegaTran 2.0 (Cat# [TT210002]).