

Product datasheet for **RG211752**

ING3 (NM_198267) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ING3 (NM_198267) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ING3
Synonyms: Eaf4; ING2; MEAF4; p47ING3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211752 representing NM_198267
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTGTACCTAGAAGACTATCTGGAAATGATTGAGCAGCTTCCTATGGATCTGCGGGACCGCTTCACGG
 AAATGCGCGAGATGGACCTGCAGGTGCAGAATGCAATGGATCACTAGAACAAAGAGTCAGTGAATTCCT
 TATGAATGCAAAGAAAAATAACCTGAGTGGAGGGAAGAGCAAAATGGCATCCATCAAAAAGACTACTAT
 AAAGCTTTGGAAGATGCAGATGAGAAGGTTCAATTGGCAAACCAGATATATGACTTGCAGCACTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211752 representing NM_198267
 Red=Cloning site Green=Tags(s)

MLYLEDYLEMIEQLPMDLRDRFTEMREMDLQVQNAMDQLEQRVSEFFMNAKKNKPEWREEQMASIKKDYY
 KALEDADEKVQLANQIYDLQHF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI


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Cloning Scheme:


ACCN: NM_198267

ORF Size: 276 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:

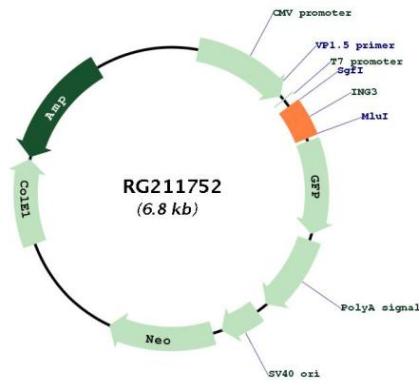
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_198267.2](#)

RefSeq Size: 1240 bp

RefSeq ORF:	279 bp
Locus ID:	54556
UniProt ID:	Q9NXR8
Cytogenetics:	7q31.31
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	The protein encoded by this gene is similar to ING1, a tumor suppressor protein that can interact with TP53, inhibit cell growth, and induce apoptosis. This protein contains a PHD-finger, which is a common motif in proteins involved in chromatin remodeling. This gene can activate p53 trans-activated promoters, including promoters of p21/waf1 and bax. Overexpression of this gene has been shown to inhibit cell growth and induce apoptosis. Allelic loss and reduced expression of this gene were detected in head and neck cancers. Two alternatively spliced transcript variants encoding different isoforms have been observed. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG211752