

Product datasheet for **RG225315**

ING4 (NM_001127583) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ING4 (NM_001127583) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ING4
Synonyms:	my036; p29ING4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225315 representing NM_001127583 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCGGGGATGATTTGGAACATTATCTGGACAGTATTGAAAACCTTCCCTTTGAATTACAGAGAA
ACTTTTCAGCTCATGAGGGACCTAGACCAAAGAACAGAGGACCTGAAGGCTGAAATTGACAAGTTGGCCAC
TGAGTATATGAGTAGTGCCCGCAGCCTGAGCTCCGAGGAAAAATTGGCCCTTCTCAAACAGATCCAGGAA
GCCTATGGCAAGTCAAGGAATTTGGTGACGACAAGGTGCAGCTTGCCATGCAGACCTATGAGATGGTGG
ACAAACACATTCGGCGGCTGGACACAGACCTGGCCGTTTTGAGGCTGATCTCAAGGAGAAACAGATTGA
GTCAAGTGACTATGACAGCTCTTCCAGCAAAGAAGGCCGACTCAAAGGAGAAGAAAGCTGCTCGTGCT
CGTTCCAAAGGGAAAACTCGGATGAAGAAGCCCCAAGACTGCCAAGAAGTAAAGCTCGTGCGCA
CAAGTCTGAGTATGGGATGCCCTCAGTGACCTTTGGCAGTGTCCACCCCTCTGATGTGTTGGATATGCC
TGTGGATCCCAACGAACCCACCTATTGCCTTTGTACCAGGTCTCCTATGGAGAGATGATTGGCTGTGAC
AACCTGATTGTTCCATTGAGTGGTTCCATTTGCCTGTGTGGGGCTGACAACCAAGCCTCGGGGAAAT
GGTTTTGCCACGCTGCTCCAAGAACGGAAGAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225315 representing NM_001127583
Red=Cloning site Green=Tags(s)

MAAGMYLEHYLDSIENLPFELQRNFQLMRDLQRTEDLKAIEDKLATEYMSSARLSSEEKALLKQIQE
 AYGKCKEFGDDKVQLAMQTYEMVDKHIRRLDLDLARFEADLKEKQIESDDYDSSSSKEGRTQKEKKAARA
 RSKGKNSDEEAPKTAQKKLKLVRTSPEYGMPSVTFGSVHPSDVLDMVPDPNEPTYCLCHQVSYGEMIGCD
 NPDCSIEWFHFAVGLTTKPRGKWFPCRCSQERKKK

TRTRPLE - GFP Tag - V

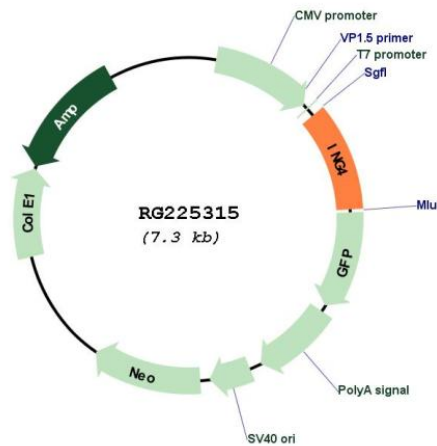
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001127583

ORF Size: 738 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:	<ol style="list-style-type: none">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_001127583.2
RefSeq Size:	1452 bp
RefSeq ORF:	741 bp
Locus ID:	51147
UniProt ID:	Q9UNL4
Cytogenetics:	12p13.31
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	This gene encodes a tumor suppressor protein that contains a PHD-finger, which is a common motif in proteins involved in chromatin remodeling. This protein can bind TP53 and EP300/p300, a component of the histone acetyl transferase complex, suggesting its involvement in the TP53-dependent regulatory pathway. Multiple alternatively spliced transcript variants have been observed that encode distinct proteins. [provided by RefSeq, Jul 2008]