

Product datasheet for **RG220333**

ING5 (NM_032329) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ING5 (NM_032329) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ING5
Synonyms:	p28ING5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220333 representing NM_032329 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACCGCCATGTAAGTGGAGCACTATCTGGACAGTATCGAGAACCTTCCCTGCGAACTTCAGAGGA
ACTTCCAGCTGATGCGAGAGCTGGACCAGAGGACGGAAGATAAGAAAGCAGAGATTGACATCCTGGCTGC
AGAGTACATCTCCACGGTGAAGACGCTGTCTCCAGACCAGCGCTGGAGCGCCTGCAGAAGATCCAGAAC
GCCTACAGCAAGTCAAGGAATACAGTGACGACAAAGTGCAGCTGGCCATGCAGACCTACGAGATGGTGG
ATAAACACATTGAAGGCTTGTATGCAGACCTGGCGCGCTTGAAGCAGATCTGAAGGACAAGATGGAGGG
CAGTGATTTTGAAGCTCCGGAGGGCGAGGGTTAAAAAAGCCGGGGTCAGAAAGAAAAAGAGGGTCC
CGGGGCCGAGGCAGGAGGACATCAGAGGAAGACACACCAAGAAAAAGAACACAAAGGAGGGTCTGAGT
TCACTGACACCATCCTGTCCGTGCAACCCCTCTGATGTGCTGGACATGCCCGTGGACCCAAACGAACCCAC
GTACTGCCTGTGCCACCAGGTCTCCTATGGGGAGATGATTGGCTGTGACAATCCAGACTGTCCAATTGAG
TGGTTTCACTTTGCCTGCGTGGACCTTACCACGAAACCCAAAGGAAAAATGGTTCTGTCCACGGTGTGTCC
AGGAAAAGAGGAAGAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220333 representing NM_032329
Red=Cloning site Green=Tags(s)

MATAMYLEHYLDSIENLPCELQRNFQLMRELDQRTEKKAIDILAAEYISTVKTLSPDQRVERLQKIQN
 AYSKCKEYSDDKVQLAMQTYEMVDKHIRRLDADLARFEADLKDKMEGSDFESSGGRGLKKGRGQKEKRG
 RGRGRRTSEEDTPKKKKHKGGSEFTDTILSVHPSDVLDPVDPNEPTYCLCHQVSYGEMIGCDNPDCPIE
 WFHFACVDLTTKPKGKWFPCPRCVQEKRKKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032329

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).

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_032329.6](#)

RefSeq Size: 5233 bp

RefSeq ORF: 723 bp

Locus ID: 84289

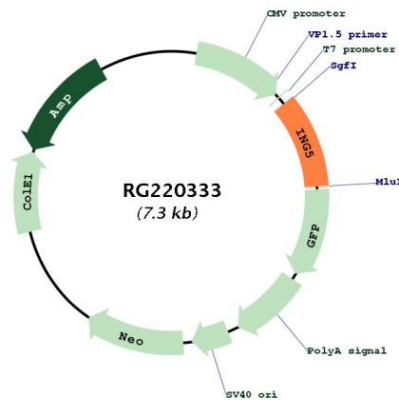
UniProt ID: [Q8WYH8](#)

Cytogenetics: 2q37.3

Protein Families: Druggable Genome

Gene Summary: This gene encodes a tumor suppressor protein that inhibits cell growth and induces apoptosis. This protein contains a PHD-type zinc finger. It interacts with tumor suppressor p53 and p300, a component of the histone acetyl transferase complex, suggesting a role in transcriptional regulation. Alternative splicing and the use of multiple promoters and 3' terminal exons results in multiple transcript variants. [provided by RefSeq, Aug 2016]

Product images:



Circular map for RG220333