

## Product datasheet for **RG225276**

### ING4 (NM\_001127585) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ING4 (NM_001127585) 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:	>RG225276 representing NM_001127585 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCGGGGATGATTTGGAACATTATCTGGACAACCTGAAGGCTGAAATTGACAAGTTGGCCACTG  
AGTATATGAGTAGTGCCCGCAGCCTGAGCTCCGAGGAAAAATTGGCCCTTCTCAAACAGATCCAGGAAGC  
CTATGGCAAGTGAAGGAATTTGGTGACGACAAGGTGCAGCTTGCCATGCAGACCTATGAGATGGTGGAC  
AAACACATTCGGCGGCTGGACACAGACCTGGCCCGTTTTGAGGCTGATCTCAAGGAGAAACAGATTGAGT  
CAAGTGACTATGACAGCTCTCCAGCAAAGGCAAAAAGAAAGGCCGACTCAAAGGAGAAGAAAGCTGC  
TCGTGCTCGTTCCAAAGGAAAACTCGGATGAAGAAGCCCCAAGACTGCCAGAAGAAGTAAAGCTC  
GTGCGCACAAAGTCTGAGTATGGGATGCCTCAGTGACCTTTGGCAGTGTCCACCCTCTGATGTGTTGG  
ATATGCCTGTGGATCCCAACGAACCCACCTATTGCCTTTGTACCAGGTCTCCTATGGAGAGATGATTGG  
CTGTGACAACCCTGATTGTTCCATTGAGTGTTCCATTTGCCTGTGTGGGGCTGACAACCAAGCCTCGG  
GGGAAATGGTTTTGCCACGCTGCTCCAAGAACGGAAGAAGAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225276 representing NM\_001127585  
Red=Cloning site Green=Tags(s)

MAAGMYLEHYLDNLKAEIDKLATEYMSSARSLSSSEKLLALKQIQEAYGKCKEFGDDKVQLAMQTYEMVD  
 KHIRRLDLDLARFEADLKEKQIESDYDSSSSKGGKKGRTOKEKKAARARSKGKNSDEEAPKTAQKLLK  
 VRTSPEYGMPSVTFGSVHPSDVLDPVDPNEPTYCLCHQVSYGEMIGCDNPDCSIEWHFHACVGLTTKPR  
 GKWFPCPRCSQERKKK

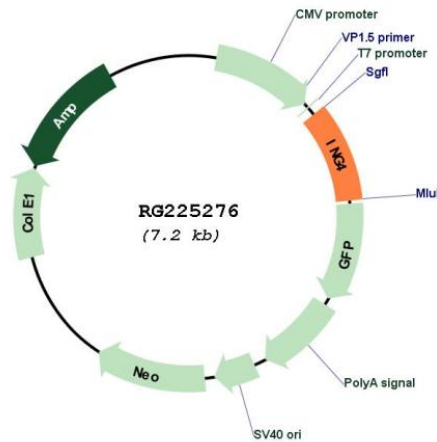
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001127585

**ORF Size:** 675 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001127585.2</a>
<b>RefSeq Size:</b>	1389 bp
<b>RefSeq ORF:</b>	678 bp
<b>Locus ID:</b>	51147
<b>UniProt ID:</b>	<a href="#">Q9UNL4</a>
<b>Cytogenetics:</b>	12p13.31
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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]