

Product datasheet for **RG221129**

ZFAND5 (NM_001102421) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFAND5 (NM_001102421) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZFAND5
Synonyms:	ZA20D2; ZFAND5A; ZNF216
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221129 representing NM_001102421 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCAGGAGACTAACCAGACCCCGGGCCCATGCTGTGTAGCACAGGATGTGGCTTTTATGAAATC
CTAGGACAAATGGAATGTGTTTCAGTTTGTACAAAGAACATCTTCAGAGGCAGCAAATAGTGCCAGAAT
GAGCCCAATGGGAACAGCTAGTGGTTCCAACAGTCTACCTCAGATTCTGCATCTGTACAGAGAGCAGAC
ACTAGCTTAAACAACGTGAAGGTGCTGCTGGCAGCACATCTGAAAAATCAAGAAATGTGCCTGTGGCTG
CCTTGCCTGTAACCTCAGCAAATGACAGAAATGAGCATTTCAAGAGAGGACAAAATAACTACCCGAAAAC
AGAGGTGTGAGAGCCAGTTGTCAGTCCAGCCAGTCCATCAGTTTCTCAGCCAGTACTTCTCAGAGTGAA
GAAAAAGCTCCTGAATTGCCCAAACAAAGAAAAACAGATGTTTCATGTGCAGAAAGAAAGTTGGTCTTA
CAGGGTTTACTGCGCATGTGGAATTTGTTTTGTGGACTTCACCGTTACTCTGACAAGCACAACGTGCC
GTATGATTACAAAGCAGAAGCTGCAGCAAAAATCAGAAAAGAGAAATCCAGTTGTTGTGGCTGAAAAAATT
CAGAGAATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221129 representing NM_001102421
 Red=Cloning site Green=Tags(s)

MAQETNQTPGPMLCSTGCGFYGNPRTNGMCSVCYKEHLQRQQNSGRMSPMGTASGSNSPSTSDSASVQRAD
 TSLNNCEGAAGSTSEKSRNVPVAALPVTQQMTEMSISREDKITTTPKTEVSEPVVTPSPSPVSPSTSQSE
 EKAPELPKPKKNRCFMCRKKVGLTGFDCRCGNLFCGLHRYSDKHNCYPDYKAEAAAKIRKENPVVVAEKI
 QRI

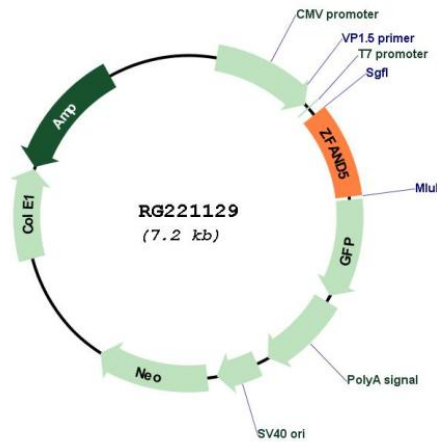
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001102421

ORF Size: 639 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_001102421.3
RefSeq Size:	5750 bp
RefSeq ORF:	642 bp
Locus ID:	7763
UniProt ID:	O76080
Cytogenetics:	9q21.13
Gene Summary:	Involved in protein degradation via the ubiquitin-proteasome system. May act by anchoring ubiquitinated proteins to the proteasome. Plays a role in ubiquitin-mediated protein degradation during muscle atrophy. Plays a role in the regulation of NF-kappa-B activation and apoptosis. Inhibits NF-kappa-B activation triggered by overexpression of RIPK1 and TRAF6 but not of RELA. Inhibits also tumor necrosis factor (TNF), IL-1 and TLR4-induced NF-kappa-B activation in a dose-dependent manner. Overexpression sensitizes cells to TNF-induced apoptosis. Is a potent inhibitory factor for osteoclast differentiation.[UniProtKB/Swiss-Prot Function]