

## Product datasheet for **RG203136**

### PI3 (NM\_002638) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PI3 (NM\_002638) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PI3  
**Synonyms:** cementoin; ESI; SKALP; WAP3; WFDC14  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG203136 representing NM\_002638  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGGGCCAGCAGCTTCTTGATCGTGGTGGTGTTCCTCATCGCTGGGACGCTGGTTCTAGAGGCAGCTG  
 TCACGGGAGTTCCTGTTAAAGGTCAAGACTGTCAAAGGCCGTGTTCCATTCAATGGACAAGATCCCGT  
 TAAAGGACAAGTTTCAGTTAAAGGTCAAGATAAAGTCAAAGCGCAAGAGCCAGTCAAAGGTCCAGTCTCC  
 ACTAAGCCTGGCTCCTGCCCATATCTTGATCCGGTGCGCCATGTTGAATCCCCCTAACCGCTGCTTGA  
 AAGATACTGACTGCCAGGAATCAAGAAGTGCTGTGAAGGCTCTTGCGGGATGGCCTGTTTCGTTCCCCA  
 G

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG203136 representing NM\_002638  
 Red=Cloning site Green=Tags(s)  
 MRASSFLIVVFLIAGTLVLEAAVTGVPVKGDVTKGRVPFNGQDPVKGQVSVKQDKVKAQEPVKGPVS  
 TKPGSCLPILIRCAMLNPPNRCLKDTPGIIKCCCEGSCGMACFVPQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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Cloning Scheme:



ACCN: NM\_002638

ORF Size: 351 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\\_002638.4](#)

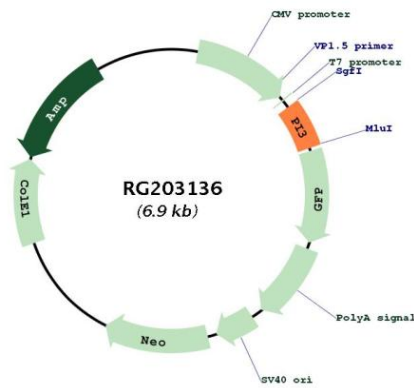
RefSeq Size: 623 bp

RefSeq ORF: 354 bp

**Locus ID:** 5266  
**UniProt ID:** [P19957](#)  
**Cytogenetics:** 20q13.12  
**Protein Families:** Secreted Protein, Transmembrane

**Gene Summary:** This gene encodes an elastase-specific inhibitor that functions as an antimicrobial peptide against Gram-positive and Gram-negative bacteria, and fungal pathogens. The protein contains a WAP-type four-disulfide core (WFDC) domain, and is thus a member of the WFDC domain family. Most WFDC gene members are localized to chromosome 20q12-q13 in two clusters: centromeric and telomeric. This gene belongs to the centromeric cluster. Expression of this gene is upregulated by bacterial lipopolysaccharides and cytokines. [provided by RefSeq, Oct 2014]

**Product images:**



Circular map for RG203136