

## Product datasheet for **RG232064**

### **SERPINB8 (NM\_001276490) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SERPINB8 (NM\_001276490) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SERPINB8  
**Synonyms:** C18orf53; CAP2; PI-8; PI8; PSS5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG232064 representing NM\_001276490  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCTTTAAACCAACGAGGAAAAAAGACAGTGCAGATGATGTTTAAAGGAAGCTAAGTTTAAATGG  
GGTATGCGGATGAGGTACACACCCAGGTCCTGGAGCTGCCCTATGTGGAAGAGGAGCTGAGCATGGTCAT  
TCTGCTCCCGATGACAACACGGACCTCGCCGTGGTGGAAAAAGCACTTACATATGAGAAATCAAAGCC  
TGGACAAATTCAGAAAAGTTGACAAAAAGTAAGTTCAAGTTTCTCCAGATTAAGCTGGAGGAGA  
GTTATGACTTGGAGCCTTTCCTTCGAAGATTAGGAATGATCGATGCTTTTGACGAAGCCAAGGCAGACTT  
TTCTGGAATGTCAACTGAGAAGAATGTGCTCTGTCCAAGTTGCCACAAGTGCTTCGTGGAGGTCAAT  
GAGGAAGGCACAGAGGCTGCCGACGCACTGCTGTGGTCAGGAATCCCGGTGCAGCAGAATGGAGCCAA  
GATTCTGTGCAGACCACCTTTTCTTTTCTTCATCAGGCACCACAAAACCAACTGCATCTTGTCTGTGG  
CAGGTTCTTTCTCCG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:** >RG232064 representing NM\_001276490  
**Red=Cloning site Green=Tags(s)**

MLFKTNEEKTVQMMFKEAKFKMGYADEVHTQVLELPYVEEELSMVILLPDDNTDLAVVEKALTYEFKA  
WTNSEKLTkskvqVFLPRLKLEESYDLEPFLRRLGMIDAFDEAKADFSGMSTEKNVPLSKVAHKCFVEVN  
EEGTEAAAATAVVRNSRCSRMEPRFCADHPFLFFIRHHKTNILFCGRFSSP

**TRTRPLE - GFP Tag - V**

**Restriction Sites:** SgfI-MluI

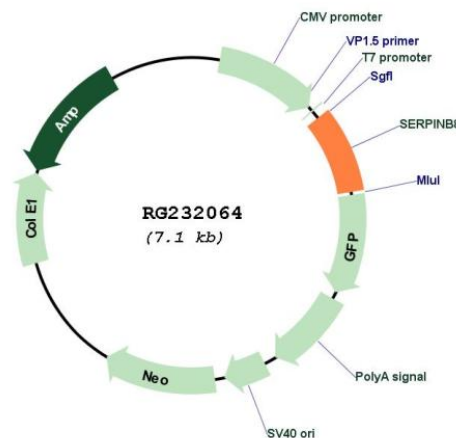


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001276490

ORF Size: 576 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\\_001276490.1](#), [NP\\_001263419.1](#)

**RefSeq Size:** 3212 bp

**RefSeq ORF:** 579 bp

**Locus ID:** 5271

**UniProt ID:** [P50452](#)

**Cytogenetics:** 18q22.1

**Protein Families:** Druggable Genome

**Gene Summary:** The protein encoded by this gene is a member of the ov-serpin family of serine protease inhibitors. The encoded protein is produced by platelets and can bind to and inhibit the function of furin, a serine protease involved in platelet functions. In addition, this protein has been found to enhance the mechanical stability of cell-cell adhesion in the skin, and defects in this gene have been associated with an autosomal-recessive form of exfoliative ichthyosis. [provided by RefSeq, Jan 2017]