

## Product datasheet for **RG223880**

### SERPINB8 (NM\_002640) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB8 (NM_002640) 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:	>RG223880 representing NM_002640 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGACCTCTGTGAAGCAAATGGCACTTTTGCCATCAGCTTATTTAAAATATTGGGGGAAGAGGACA  
ACTCAAGAAACGTATTCTTCTCTCCCATGAGCATCTCCTCTGCCCTGGCCATGGTCTTCATGGGGGCAA  
GGGAAGCACTGCAGCCCAGATGTCCAGGCACTTTGTTTATACAAAGACGGAGATATTCACCGAGTTTC  
CAGTCACTTCTCAGTGAAGTTAACAGAAGTGGCACTCAGTACTTGCTTAGAACTGCCAACAGACTCTTTG  
GAGAAAAGACGTGTGATTTCTTCCAGACTTTAAAGAATACTGTCAGAAGTTCTATCAGGCAGAGCTGGA  
GGAGTTGTCTTTGCTGAAGACTGAAGAGTGCAGGAAGCATATAAATGACTGGGTGGCAGAGAAGACT  
GAAGGTAAGATTTAGAGGACTGGATGCTGGGACAGTCGATCCCTGACAAAGCTGGTCTTTGTGAATG  
CCATTTATTTCAAGGGAAAGTGAATGAGCAATTTGACAGAAAGTACACAAGGGGAATGCTCTTTAAAC  
CAACGAGGAAAAAAGACAGTGCAGATGATGTTAAGGAAGCTAAGTTTAAAATGGGGTATGCGGATGAG  
GTACACACCCAGGTCCTGGAGCTGCCATGTGGAAGAGGAGCTGAGCATGGTCATTCTGCTTCCCGATG  
ACAACACGGACCTCGCCGTGGTGGAAAAAGCACTTACATATGAGAAATTCAAAGCCTGGACAAATTCAGA  
AAAGTTGACAAAAAGTAAAGTTCAAGTTTCTTCCCAGATTAAGCTGGAGGAGAGTTATGACTTGGAG  
CTGAGAAGAATGTGCCTCTGTCCAAGTTGCCACAAGTCTTGGAGGTCATGAGGAAGGCACAGA  
GGCTGCCGACCCACTGCTGTGGTCAGGAATCCCGGTGCAGCAGAATGGAGCCAAGATTCTGTGCAGAC  
CACCTTTTCTTTCTTCATCAGGCACCACAAAACCAACTGCATCTTGTCTGTGGCAGGTTCTCTCTC  
CG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223880 representing NM\_002640  
 Red=Cloning site Green=Tags(s)

MDDLCEANGTFAISL FKILGEEDNSRNVFFSPMSISSALAMVFMGAKGSTAAQMSQALCLYKDGDIHRGF  
 QSLLEVNRTGTQYLLRRTANRLFGEKTCDFLPDFKEYCQKFYQAELEEL SFAEDTEECRKHINDWVAEKT  
 EGKISEVLDAGTVDPLTKLVLVNAIYFKGKWNEQFDRKYTRGMLFKTNEEKKTVMFMFKEAKFKMGYADE  
 VHTQVLELPYVEEELSMVILLPDDNTDLAVVEKALTYEKFKAWTNSEKLT KSKVQVFLPRLKLEESYDLE  
 PFLRRLGMIDAFDEAKADFSGMSTTEKNVPLSKVAHKCFVEVNEEGTEAAAATAVVRNSRCSRMEPRFCAD  
 HPFLFFIRHHKTCILFCGRFSSP

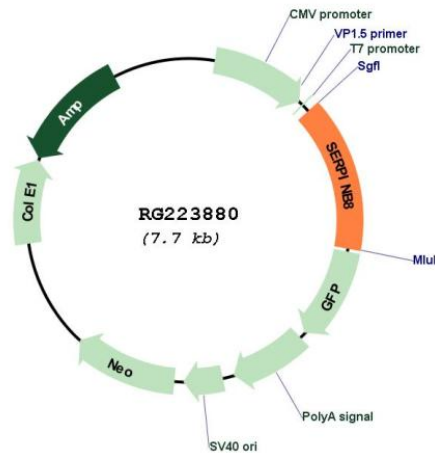
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_002640

<b>ORF Size:</b>	1122 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_002640.4</a>
<b>RefSeq Size:</b>	3390 bp
<b>RefSeq ORF:</b>	1125 bp
<b>Locus ID:</b>	5271
<b>UniProt ID:</b>	<a href="#">P50452</a>
<b>Cytogenetics:</b>	18q22.1
<b>Domains:</b>	SERPIN
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]