

Product datasheet for **RG205612**

SERPINB4 (NM_002974) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB4 (NM_002974) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SERPINB4
Synonyms:	LEUPIN; PI11; SCCA-2; SCCA1; SCCA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205612 representing NM_002974 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCACTCAGTGAAGCCAACACCAAGTTCATGTTGATCTGTTCCAACAGTTCAGAAAAATCAAAG
AGAACAACATCTTCTATCCCTATCAGCATCACATCAGCATTAGGGATGGTCTCTTAGGAGCCAAAGA
CAACACTGCACAACAAATTAGCAAGTTCTTCACTTTGATCAAGTCACAGAGAACACCACAGAAAAAGCT
GCAACATATCATGTTGATAGGTCAGGAAATGTTTCATCACCAGTTTCAAAGCTTCTGACTGAATTCAACA
AATCCACTGATGCATATGAGCTGAAGATCGCCAACAAGCTCTTCGAGAAAAGACGTATCAATTTTACA
GGAATATTTAGATGCCATCAAGAAATTTACCAGACCAGTGTGGAATCTACTGATTTGCAAATGCTCCA
GAAGAAAGTCGAAAGAAGATTAACCTCCTGGGTGAAAAGTCAAACGAATGAAAAATTA AAAACCTATTTT
CTGATGGGACTATTGGCAATGATACGACTGGTCTTGTGAACGAATCTATTTCAAAGGGCAGTGGGA
GAATAAATTTAAAAAGAAAACACTAAAGAGGAAAAATTTGGCCAAACAAGAATACATACAAATCTGTA
CAGATGATGAGGCAATACAATTCCTTTAATTTGCCTTGTGGAGGATGTACAGGCCAAGTCTGGAAA
TACCATACAAAGGCAAAGATCTAAGCATGATTGTGCTGCTGCCAATGAAATCGATGGTCTGCAGAAGCT
TGAAGAGAACTCACTGCTGAGAAATGATGGAATGGACAAGTTGCAGAATATGAGAGAGACATGTGTC
GATTTACACTTACCTCGTTCAAATGGAAGAGAGCTATGACCTCAAGGACACGTTGAGAACCATGGGAA
TGGTGAATATCTTCAATGGGGATGCAGACCTCTCAGGCATGACCTGGAGCCACGGTCTCTCAGTATCTAA
AGTCTACACAAGGCTTTGTGGAGTCACTGAGGAGGGAGTGGAAAGCTGCAGCTGCCACCGCTGTAGTA
GTAGTCGAATTATCATCTCCTTCAACTAATGAAGATTCTGTTGTAATCACCCCTTCTATTCTTCATAA
GGCAAAAATAAGACCAACAGCATCTCTTCTATGGCAGATTCTCATCCCA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205612 representing NM_002974
 Red=Cloning site Green=Tags(s)

MNSLSEANTKFMFDLFQQFRKSKENNIFYSPISITSALGMVLLGAKDNTAQQISKVLHFDQVTENTTEKA
 ATYHVDRSGNVVHHQFQKLLTEFNKSTDAYELKIANKLFGEKTYQFLQEYLDAIKKFYQTSVESTDFANAP
 EESRKKINSWVESQTNKIKNLPDGTIGNDTLLVNAIYFKGQWENFKKENTKEEFWPNKNTYKSV
 QMMRQYNSFNFALLEVDVQAKVLEIPYKGGKDLSMIVLLPNEIDGLQKLEEKLTAEKLMEWTSLQNMRETCV
 DLHLPRFKMEESYDLKDLRTMGVMNIFNGDADLSGMTWSHGLSVSKVLHKA FVEVTEEGVEAAAATAVV
 VVELSSPSTNEEFCCNHPFLFFIRQNKNTSILFYGRFSSP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002974

ORF Size: 1170 bp

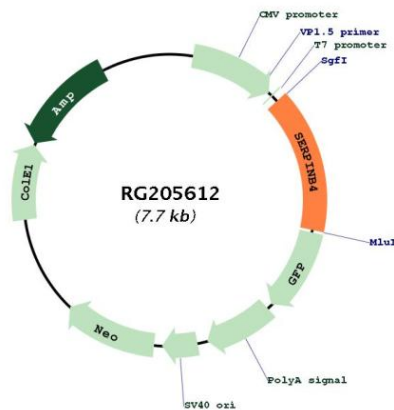
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_002974.4](#)
- RefSeq Size:** 1736 bp
- RefSeq ORF:** 1173 bp
- Locus ID:** 6318
- UniProt ID:** [P48594](#)
- Cytogenetics:** 18q21.33
- Protein Families:** Druggable Genome, Secreted Protein
- Gene Summary:** The protein encoded by this gene is a member of the serpin family of serine protease inhibitors. The encoded protein is highly expressed in many tumor cells and can inactivate granzyme M, an enzyme that kills tumor cells. This protein, along with serpin B3, can be processed into smaller fragments that aggregate to form an autoantigen in psoriasis, probably by causing chronic inflammation. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RG205612