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Product datasheet for RG202138

SERPINB1 (NM_030666) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB1 (NM_030666) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SERPINB1
Synonyms:	EI; ELANH2; HEL-S-27; HEL57; LEI; M/NEI; MNEI; PI-2; PI2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG202138 representing NM_030666
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCAGCTGAGCTCAGCAAACACCCGCTTCGCCTTGGACCTGTTCCTGGCGTTGAGTGAGAACAATC
CGGCTGGAAACATCTTCATCTCTCCCTTCAGCATTTCATCTGCTATGGCCATGGTTTTTCTGGGGACCAG
AGGTAACACGGCAGCACAGCTGTCCAAGACTTTCCATTTCAACACGGTTGAAGAGGTTCATTCAAGATTC
CAGAGTCTGAATGCTGATATCAACAAACGTGGAGCGTCTTATATTCTGAAACTTGCTAATAGATTATATG
GAGAGAAAACTTACAATTTCCTTCCTGAGTTCTTGGTTTCGACTCAGAAAACATATGGTGCTGACCTGGC
CAGTGTGGATTTTCAGCATGCCTCTGAAGATGCAAGGAAGACCATAAACCAGTGGGTCAAAGGACAGACA
GAAGGAAAAATTCCGGAACTGTTGGCTTCGGGCATGGTTGATAACATGACCAAACTTGTGCTAGTAAATG
CCATCTATTTCAAGGGAAACTGGAAGGATAAATTCATGAAAGAAGCCACGACGAATGCACCATTCAGATT
GAATAAGAAAGACAGAAAAACTGTGAAAATGATGTATCAGAAGAAAAAATTTGCATATGGCTACATCGAG
GACCTTAAGTGCCGTGTGCTGGAACTGCCTTACCAAGGCGAGGAGCTCAGCATGGTCATCCTGCTGCCGG
ATGACATTGAGGACGAGTCCACGGGCCTGAAGAAGATTGAGGAACAGTTGACTTTGGAAAAGTTGCATGA
GTGGACTAAACCTGAGAATCTCGATTTCATTGAAGTTAATGTCAGCTTGCCCAGGTTCAAACTGGAAGAG
AGTTACACTCTCAACTCCGACCTCGCCCGCCTAGGTGTGCAGGATCTCTTTAACAGTAGCAAGGCTGATC
TGTCTGGCATGTCAGGAGCCAGAGATATTTTTATATCAAAAATTGTCCACAAGTCATTTGTGGAAGTGAA
TGAAGAGGGAACAGAGGCGGCAGCTGCCACAGCAGGCATCGCAACTTTCTGCATGTTGATGCCCGAAGAA
AATTTCACTGCCGACCATCCATTCCTTTTCTTTATTCGGCATAATTCCTCAGGTAGCATCCTATTCTTGG
GGAGATTTTCTTCCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

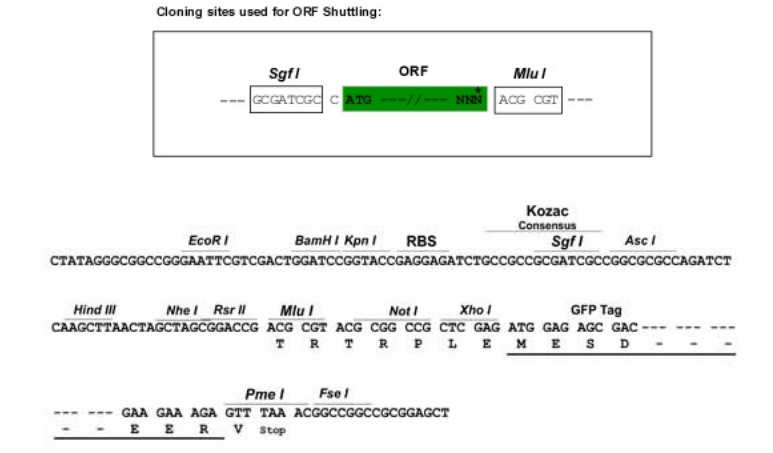
>RG202138 representing NM_030666
Red=Cloning site Green=Tags(s)

MEQLSSANTRFALDLFLALSENNPAGNIFISPFSISSAMAMVFLGTRGNTAAQLSKTFHFNTVEEVHSRF
QSLNADINKRGASYILKLANRLYGEKTYNFLPEFLVSTQKTYGADLASVDFQHASEDARKTINQWVKGQT
EGKIPELLASGMVDNMTKLVLVNAIYFKGNWKDKFMKEATTNAPFRLNKKDRKTVKMMYQKKKFAYGYIE
DLKCRVLELPYQGEELSMVILLPDDIEDESTGLKKIEEQLTLEKLHEWTKPENLDFIEVNVSLPRFKLEE
SYTLNSDLARLGVQDLFNSSKADLSGMSGARDIFISKIVHKSFVEVNEEGTEAAAATAGIATFCMLMPEE
NFTADHPFLFFIRHNSSGSILFLGRFSSP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030666

ORF Size: 1137 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).

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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_030666.4

RefSeq Size: 1310 bp

RefSeq ORF: 1140 bp

Locus ID: 1992

UniProt ID: P30740

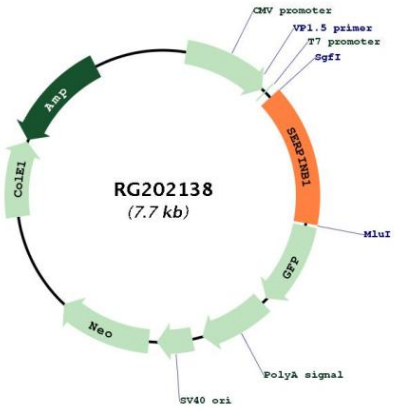
Cytogenetics: 6p25.2

Domains: SERPIN

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene is a member of the serpin family of proteinase inhibitors. Members of this family maintain homeostasis by neutralizing overexpressed proteinase activity through their function as suicide substrates. This protein inhibits the neutrophil-derived proteinases neutrophil elastase, cathepsin G, and proteinase-3 and thus protects tissues from damage at inflammatory sites. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

Product images:



Circular map for RG202138

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