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Product datasheet for MR205963

Serpinb1b (NM_173052) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serpinb1b (NM_173052) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Serpinb1b
Synonyms:	6330533H24Rik; EIB; ovalbumin; Serpin1b1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205963 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCAGCTGAGTTCAGCGAACACCCTCTTCACCTTGGAGCTGTTCCACACACTGAAGGAAAGCAGCC
CCACAGGAAACATCTTCTTCTCTCCATTTAGTATTTCTTCTTCCTTGGCCATGGTCTTTCTGGGAGCCAA
AGGCAGCACTGCAGCCCAGCTCTCTAAGACTCTTCATTTTGACTCTGTTGAGGACATCCATTCATGCTTT
CAAAGCCTGACTGCTGAAGTGAGCAAGCTGGGAGCATCTCACACTCTGAAACTTGCTAACAGACTGTATG
GAGAGAAAACCTACAATTTCCTTCCTGAGTTCTTGGCTTCCACCCAGAAAATGTACAGTGCTGACTTGGC
CGCTGTGGATTTTCAGCATGCCTCTGAGGATGCAAGGAAGGAGATAAACCAATGGGTCAAAGGTCAAACA
GAAGGTAAAATCCCAGAACTGCTGGCTAAGGGTGTGGTAGACAGCATGACCAAACTTGTGCTAGTGAATG
CCATTTACTTCAAAGGAATATGGGAGGAGCAATTCATGACAAGAGAAACAATCAATGCTCCATTCAGACT
GAATAAGAAAGACACAAAAACAGTGAAGATGATGTATCAAAAGAAAAAATTTCCATTCGGTTACATTTCG
GACCTGAAGTGCAAGGTGCTGGAGATGCCTTACCAGGGTGGAGAACTTAGCATGGTCATTCTGCTGCCTG
AAGACATTGAGGATGAGTCCACGGGTCTTAAGAAGATTGAGGAGCAATTAACTTTGGGAAAACTTCATGA
ATGGACCAAACATGAGAACTTGAGAAACATTGATGTCCATGTCAAATTGCCCAGGTTCAAGATGGAAGAG
AGCTACATACTCAACTCTAACCTGTGCTGCCTGGGAGTGCAGGATCTCTTTAGTAGTGGCAAGGCTGATC
TCTCTGGCATGTCAGGATCCAGAGATCTTTTCGTATCAAAAATTGTCCACAAGTCATTTGTGGATGTTAA
TGAGCAGGGAACAGAGGCAGCTGCTGCCACAGGAGGCATTATTCAGGTGCTCTGCGAGAAGATGCCTACT
CCACAGGAAGTATTCACTGTGGATCACCCATTCCTTTTCTTTATTCGGCACAACCCCACAGCTAATATGA
TCTTCTTTGGCAGGGTTTGTTCCCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

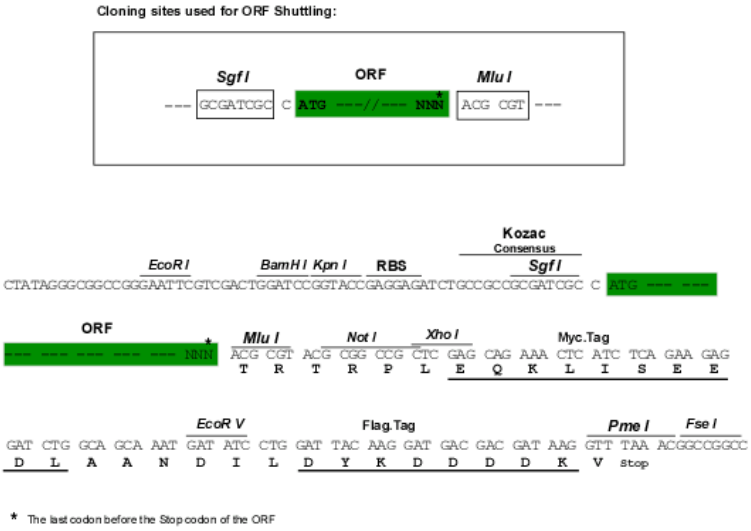
>MR205963 protein sequence
Red=Cloning site Green=Tags(s)

MEQLSSANTLFTLELFHTLKESSPTGNIFFSPFSISSSLAMVFLGAKGSTAAQLSKTLHFDSVEDIHSCF
QSLTAEVSKLGASHTLKLANRLYGEKTYNFLPEFLASTQKMYSADLAAVDFQHASEDARKEINQWVKGQT
EGKIPELLAKGVVDSMTKLVLVNAIYFKGIWEEQFMTRETINAPFRLNKKDTKTVKMMYQKKKFPFGYIS
DLKCKVLEMPYQGGELSMVILLPEDIEDESTGLKKIEEQLTLGKLHEWTKHENLRNIDVHVKLPRFKMEE
SYILNSNLCCLGVQDLFSSGKADLSGMSGSRDLFVSKIVHKSFVDVNEQGTEAAAATGGIIQVLCEKMPT
PQEVFTVDHPFLFFIRHNPTANMIFFGRVCSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173052

ORF Size: 1149 bp

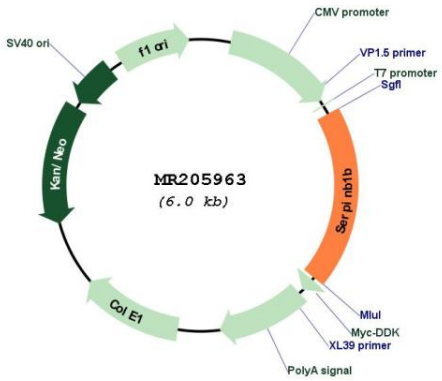
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_173052.2
RefSeq Size:	1729 bp
RefSeq ORF:	1149 bp
Locus ID:	282663
UniProt ID:	Q8VHP7
Cytogenetics:	13 13.81 cM
MW:	42.9 kDa
Gene Summary:	Regulates the activity of the neutrophil proteases. Forms only a stable complex with CTSG/Cathepsin G (PubMed:12189154). During inflammation, limits the activity of inflammatory caspases CASP1 and CASP4 by suppressing their caspase-recruitment domain (CARD) oligomerization and enzymatic activation (PubMed:30692621).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205963