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Product datasheet for RC227583

SERPINB2 (NM_001143818) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERPINB2 (NM_001143818) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SERPINB2
Synonyms:	HsT1201; PAI; PAI-2; PAI2; PLANH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RG227583 representing NM_001143818
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGATCTTTGTGTGGCAAACACACTCTTTGCCCTCAATTTATTCAAGCATCTGGCAAAAGCAAGCC
CCACCCAGAACCTCTTCCTCTCCCCATGGAGCATCTCGTCCACCATGGCCATGGTCTACATGGGCTCCAG
GGGCAGCACCGAAGACCAGATGGCCAAGGTGCTTCAGTTTAATGAAGTGGGAGCCAATGCAGTTACCCCC
ATGACTCCAGAGAACTTTACCAGCTGTGGGTTCATGCAGCAGATCCAGAAGGGTAGTTATCCTGATGCGA
TTTTGCAGGCACAAGCTGCAGATAAAATCCATTCATCCTTCCGCTCTCTCAGCTCTGCAATCAATGCATC
CACAGGGAATTATTTACTGGAAAGTGTCAATAAGCTGTTTGGTGAGAAGTCTGCGAGCTTCCGGGAAGAA
TATATTCGACTCTGTCAGAAATATTACTCCTCAGAACCCCAGGCAGTAGACTTCCTAGAATGTGCAGAAG
AAGCTAGAAAAAAGATTTATTCCTGGGTCAAGACTCAAACCAAAGGCAAAATCCCAAACTTGTTACCTGA
AGGTTCTGTAGATGGGGATACCAGGATGGTCCTGGTGAATGCTGTCTACTTCAAAGGAAAGTGGAAAACT
CCATTTGAGAAGAAACTAAATGGGCTTTATCCTTTCCGTGTAAACTCGGCTCAGCGCACACCTGTACAGA
TGATGTACTTGCGTGAAAAGCTAAACATTGGATACATAGAAGACCTAAAGGCTCAGATTCTAGAACTCCC
ATATGCTGGAGATGTTAGCATGTTCTTGTTGCTTCCAGATGAAATTGCCGATGTGTCCACTGGCTTGGAG
CTGCTGGAAAGTGAAATAACCTATGACAAACTCAACAAGTGGACCAGCAAAGACAAAATGGCTGAAGATG
AAGTTGAGGTATACATACCCCAGTTCAAATTAGAAGAGCATTATGAACTCAGATCCATTCTGAGAAGCAT
GGGCATGGAGGACGCCTTCAACAAGGGACGGGCCAATTTCTCAGGGATGTCGGAGAGGAATGACCTGTTT
CTTTCTGAAGTGTTCCACCAAGCCATGGTGGATGTGAATGAGGAGGGCACTGAAGCAGCCGCTGGCACAG
GAGGTGTTATGACAGGGAGAACTGGACATGGAGGCCCACAGTTTGTGGCAGATCATCCTTTTCTTTTTCT
TATTATGCATAAGATAACCAACTGCATTTTATTTTTCGGCAGATTTTCCTCACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag -  GTTTAA
```

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Protein Sequence:

```
>RC227583 protein sequence
Red=Cloning site Green=Tags(s)

MEDLCVANTLFALNLFKHLAKASPTQNLFLSPWSISSTMAMVYMGSRGSTEDQMAKVLQFNEVGANAVTP
MTPENFTSCGFMQQIQKGSYPDAILQAQAADKIHSSFRSLSSAINASTGNYLLESVNKLFGEKSASFREE
YIRLCQKYYSSEPQAVDFLECAEEARKKIYSWVKTQTKGKIPNLLPEGSVDGDTRMVLVNAVYFKGKWKT
PFEKKLNGLYPFRVNSAQRTPVQMMYLREKLNIGYIEDLKAQILELPYAGDVSMFLLLPDEIADVSTGLE
LLESEITYDKLNKWTSKDKMAEDEVEVYIPQFKLEEHYELRSILRSMGMEDAFNKGRANFSGMSERNDLF
LSEVFHQAMVDVNEEGTEAAAGTGGVMTGRTGHGGPQFVADHPFLFLIMHKITNCILFFGRFSSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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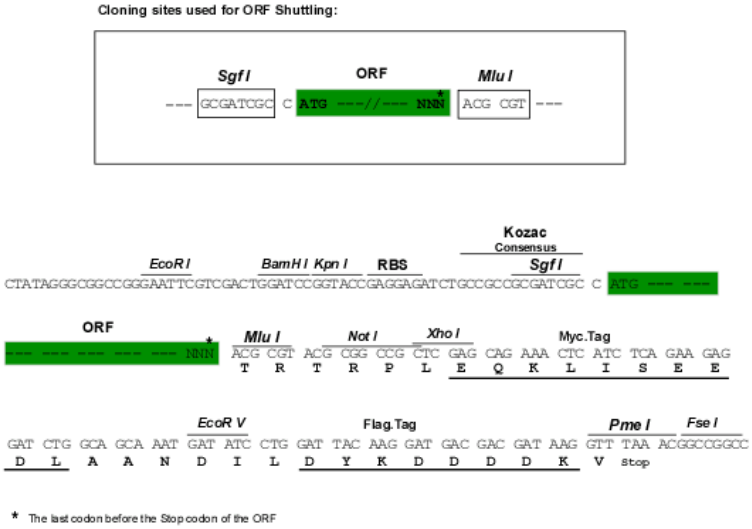
Chromatograms: https://cdn.origene.com/chromatograms/mk6055_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001143818

ORF Size: 1245 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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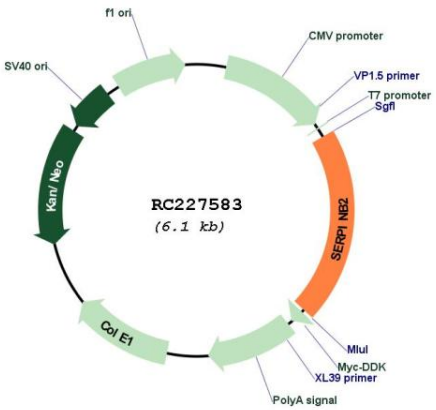
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001143818.1, NP_001137290.1
RefSeq Size:	2180 bp
RefSeq ORF:	1248 bp
Locus ID:	5055
UniProt ID:	P05120
Cytogenetics:	18q21.33-q22.1
Protein Families:	Druggable Genome, Secreted Protein
MW:	46.6 kDa
Gene Summary:	Inhibits urokinase-type plasminogen activator. The monocyte derived PAI-2 is distinct from the endothelial cell-derived PAI-1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227583

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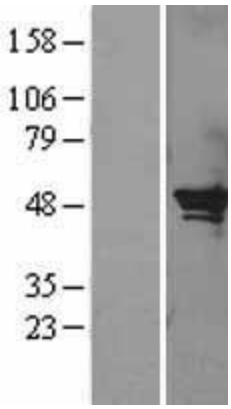
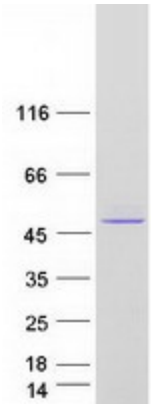


Western blot validation of overexpression lysate (Cat# [LY428363]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227583 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SERPINB2 protein (Cat# [TP327583]). The protein was produced from HEK293T cells transfected with SERPINB2 cDNA clone (Cat# RC227583) using MegaTran 2.0 (Cat# [TT210002]).

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