

Product datasheet for RC222821

SERPINB7 (NM_001040147) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SERPINB7
Synonyms:	MEGSIN; PPKN; TP55
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC222821 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCCCTTGCTGCAGCAAATGCAGAGTTTTGCTTCAACCTGTTCAGAGAGATGGATGACAATCAAG
GAAATGGAATGTGTTCTTTCTCTCTGAGCCTCTTCGCTGCCCTGGCCCTGGTCCGCTTGGGCGCTCA
AGATGACTCCCTCTCTCAGATTGATAAGTTGCTTCATGTTAACTGCCTCAGGATATGGAACTCTTCT
AATAGTCAGTCAGGGCTCCAGTCTCAACTGAAAAGAGTTTTCTGATATAAATGCATCCCAAGGATT
ATGATCTCAGCATTGTGAATGGGCTTTTTGCTGAAAAGTGTATGGCTTTCATAAGGACTACATTGAGTG
TGCCGAAAAATTATACGATGCCAAAGTGGAGCGAGTTGACTTTACGAATCATTTAGAAGACACTAGACGT
AATATTAATAAGTGGTTGAAAATGAAACACATGGCAAAATCAAGAACGTGATTGGTGAAGGTGGCATAA
GCTCATCTGCTGTAATGGTGTGGTGAATGCTGTACTTCAAAGGCAAGTGGCAATCAGCCTTCACCAA
GAGCGAAACCATAAATTGCCATTTCAAATCTCCAAGTGTCTGGGAAGGCAGTCGCCATGATGCATCAG
GAACGGAAGTTCAATTTGTCTGTTATTGAGGACCATCAATGAAGATTCTTGAGCTCAGATACAATGGTG
GCATAACATGTACGTTCTGCTGCCTGAGAATGACCTCTCTGAAATTGAAAACAACTGACCTTTTCAGAA
TCTAATGGAATGGACCAATCCAAGGCGAATGACCTCTAAGTATGTTGAGGTATTTTTCTCAGTTCAAG
ATAGAGAAGAATTATGAAATGAAACAATATTTGAGAGCCCTAGGGCTGAAAGATATCTTTGATGAATCCA
AAGCAGATCTCTCTGGGATTGCTTCGGGGGGTCTGTATATATCAAGGATGATGCACAAATCTTACAT
AGAGGTCACTGAGGAGGACCGAGGCTACTGCTGCCACAGGAAGTAATATTGTAGAAAAGCAACTCCCT
CAGTCCAGCTGTTTAGAGCTGACCACCATTCCTATTGTTATCAGGAAGGATGACATCATCTTATTCA
GTGGCAAAGTTCTTGCCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC222821 protein sequence
Red=Cloning site Green=Tags(s)

MASLAAANAECFNLFREDDNQGNVFFSSLSLFAALALVRLGAQDDSLSQIDKLLHVNTASGYGNSS
 NSQSGQLQSQRKRVSDINASHKDYDL SI VNLGFAEKVYGFHKDYIECAEKL YDAKVERVDFTNHLEDTRR
 NINKWVENETHGKIKNVIEGGTSSSAVMVLVNAVYFGKQWQSAFTKSETINCHFKSPKCSGKAVAMMHQ
 ERKFNLVIEDPSMKILELRVNGGINMYVLLPENDLSEIENKLTQNLMEWTNPRRMTSKYVEVFPQFK
 IEKNYEMKQYRLALGLKDIFDESKADLSGIASGGRLYISRMHHSYIEVTEEGTEATAGSNIVEKQLP
 OSTLFRAHDHPLFLFVIRKDDIIFESKGVSCP

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

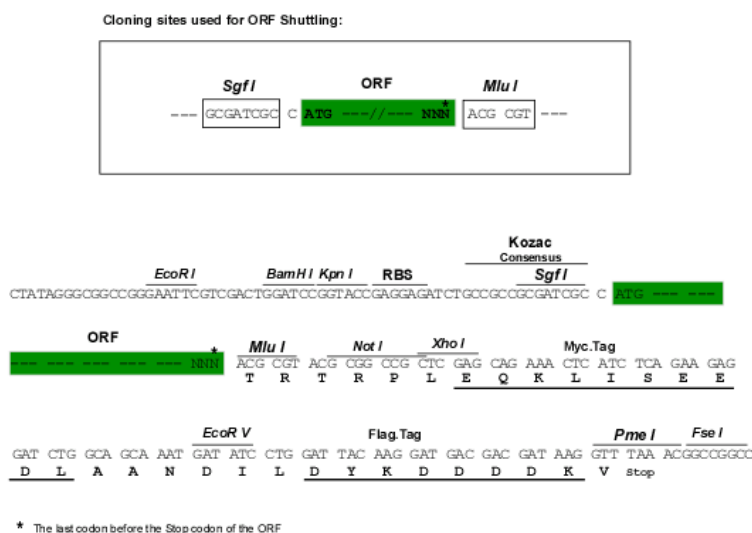
Chromatograms:

https://cdn.origene.com/chromatograms/mk6728_c03.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN:

NM_001040147

ORF Size:

1140 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:

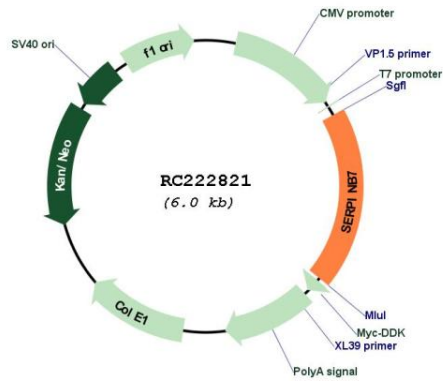
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

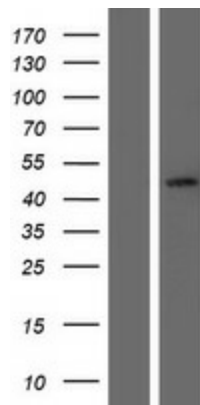
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001040147.2, NP_001035237.1</u>
RefSeq Size:	1976 bp
RefSeq ORF:	1143 bp
Locus ID:	8710
UniProt ID:	<u>O75635</u>
Cytogenetics:	18q21.33
Protein Families:	Druggable Genome
MW:	42.9 kDa
Gene Summary:	This gene encodes a member of a family of proteins which function as protease inhibitors. Expression of this gene is upregulated in IgA nephropathy and mutations have been found to cause palmoplantar keratoderma, Nagashima type. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]

Product images:



Circular map for RC222821



Western blot validation of overexpression lysate (Cat# [LY421695]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222821 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).