

## Product datasheet for **MG206512**

### Serpina1b (NM\_009244) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Serpina1b (NM_009244) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Serpina1b
Synonyms:	D12Ucla2; Dom2; PI2; Spi1-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206512 representing NM_009244 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTCCCTCCATCTCATGGGGTCTACTGCTTCTGGCAGGCCTGTGTTGCCTGGTCCCCAGCTTTCTGG  
CTGAGGATGTTTCAGGAGACAGACACCTCCAGAAGGATCAGTCCCAGCCTCCCATGAGATCGCTACAAA  
CCTGGGAGACTTTGCAATCAGCCTATACCGGGAGCTGGTCCATCAGTCCAACACTTCCAACATCTTCTTC  
TCCCCAGTGAGCATTGCCACAGCCTTTGCTATGCTCTCCCTAGGGAGCAAGGGTGACACTCACACGCAGA  
TCCTAGAGGGCCTGCAGTTCAACCTCACACAAACATCGGAGGCTGACATCCACAAGTCTTCCAACACCT  
CCTCCAAACCCTCAACAGACCAGACAGTGCAGTTGAGCACAGGCAATGGCCTCTTTGTCAACAAT  
GACCTGAAGCTGGTGGAGAAGTTTCTGGAAGAGGCCAAGAACCATTATCAGGCAGAAGTCTTCTCTGTCA  
ACTTTGCAGAGTCAGAGGAGGCCAAGAAAGTGATTAATGATTTTGTGGAGAAGGGAAACCAAGGAAAGAT  
AGTTGAGGCAGTGAAAGAAGTGGACCAAGACACAGTTTTCGCCCTGGCAAATTACATTCTTTTTAAAGGC  
AAATGGAAGAAGCCATTCGATCCTGAGAACACTGAAGAAGCTGAGTTCACGTGGACAAGTCCACCACGG  
TGAAGGTGCCATGATGACCCTCTCGGGCATGCTTGTGTCACCATTGCAGCACACTCTCCAGCTGGGT  
GCTGCTGATGGATTACGTGGGCAACGCCAGTGTCTTCTCCTGCCCCAAGATGGGAAGATGCAGCAT  
CTGGAGCAAACCTCAGCAAGGAGCTCATCTAAGATCCTGCTAAACAGGCACAGAAGGTTAGTCCAGA  
TCCATATCCCCAGACTGTCCATCTCTGGAGACTATAACTTGAAGACACTCATGAGTCCACTGGGCATCAC  
CCGGATCTTCAACAATGGGGCTGACCTCTCCGGAATCACAGAGGAGAATGCTCCCCTGAAGCTCAGCAAG  
GCTGTGCATAAGGCTGTGCTGACCATCGATGAGACAGGAACAGAAGCTGCAGCAGCCACAGTCTTTGAAG  
CCGTTCTATGTCTATGCCCCCTATCCTGCGCTTCGACCACCTTTCTTTTTATAATTTGAAGAACA  
CACTCAGAGCCCCATCTTTGTGGAAAAGTGGTAGATCCACACATAAA

**ACGGT**ACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206512 representing NM\_009244  
 Red=Cloning site Green=Tags(s)

MTPSISWGLLLLAGLCCLVPSFLAEDVQETDTSQKDQSPASHEIATNLGDF AISLYREL VHQSNTSNIFF  
 SPVSIATAFAMLSLGSKGDHTHTQILEGLQFNLTQTSEADIHKSFQHLLQTLNRPDSELQLSTGNGLFVNN  
 DLKLVKFL EEAKNHYQAEVFSVNFAESEEAKKVINDFVEKGTQKIVEAVKELDQDQDTVFALANYILFKG  
 KWKKPFDPENTEEAEFHVDKSTTVKVPMTLSGMLDVHHCSTLSSWVLLMDYVGNASAVFLLPEDGKMQH  
 LEQTLSEKELISKILLNRHRLVQIHIPRLSISGDYNLKTLMSP LGITRIFNNGADLSGITEENAPLKL SK  
 AVHKAVLTIDETGTEAAAATVFEAVPMSMPPILRFDHPFLFIIFEHTQSPIFVGKVVDPTHK

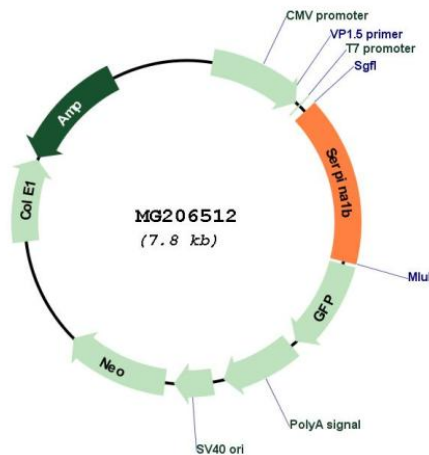
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_009244

<b>ORF Size:</b>	1239 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009244.2</a>
<b>RefSeq Size:</b>	1434 bp
<b>RefSeq ORF:</b>	1242 bp
<b>Locus ID:</b>	20701
<b>UniProt ID:</b>	<a href="#">P22599</a>
<b>Cytogenetics:</b>	12 52.98 cM
<b>Gene Summary:</b>	Inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin.[UniProtKB/Swiss-Prot Function]