

## Product datasheet for **MC215804**

### Serpina3g (NM\_009251) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Serpina3g (NM_009251) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Serpina3g
Synonyms:	2A2; A1119734; spi2; Spi2-1; Spi2/eb.1; Spi2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Restriction Sites:	Sgfl-MluI
ACCN:	NM_009251
Insert Size:	1323 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<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>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u><a href="#">NM_009251.1</a></u>


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RefSeq Size: 2030 bp

RefSeq ORF: 1323 bp

Locus ID: 20715

UniProt ID: [Q5I2A0](#)

Cytogenetics: 12 E

MW: 49.1 kDa

**Gene Summary:** Serine and cysteine protease inhibitor. Can inhibit lysosomal papain-like proteases including the cathepsins B, G, H, K, L and V. Ineffective against elastase, granzyme A, granzyme B, or caspases 3, 8 or 9. Inhibition of cytoplasmic cathepsin B following release from the lysosome may protect cells from apoptosis. This may facilitate the survival of progenitor T-cells and the subsequent development of long term memory CD8 T-cells.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents an allele found in NOD and other strains and encodes isoform 1.