

## Product datasheet for **MC200304**

### **Sgta (NM\_024499) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sgta (NM_024499) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sgta
Synonyms:	5330427H01Rik; A1194281; D10Ertd190e; Sgt; Stg
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >BC003836 sequence for NM\_024499  
 TGGGTCGGGTCTTCGGTCGACTGAGAGATCCTGAGCAAGCAGTGTACCTCACTAGTCTCGAGATGGACA  
 ACAGGAAGCGCCTGGCCTATGCCATCATCCAGTTCCTCCATGGCCAGTTGCGGCACGGTGGGCTCTCGTG  
 TGACGCCCAGGAGAGCCTAGAGGTTGCCATCCAGTGTCTGGAGACAGCCTTCGGGGTGACGCTGGAGGAC  
 AGTGACCTTGCTCTCCCCAGACCCTGCCAGAGATATTTGAAGCAGCCACTTCCAGCAAGCAGGAGATGC  
 CACAGGACCCGCGGGCCCTGACAGGACACCACCCTCTGAAGAGGACTCAGCTGAGGCAGAGCGCCTCAA  
 AACGGAAGGTAATGAGCAGATGAAGCTGGAGAACTTCGAGGCGGCTGTGCACCTCTACGGCAAGGCCATT  
 GAGCTCAACCCTGCCAATGCTGTCTACTTCTGTAAACAGAGCTGCGGCCTACAGCAAGCTGGGGAACCTACG  
 TGGGGGCCGTGACAGGACTGCGAGCGCGCCATTGGCATCGACCCTGGGTATAGCAAGGCCTATGGCCGCAT  
 GGGCCTTGCACTATCCAGCCTGAACAAGCATGCAGAGGCTGTGGCATACTACAAGAAGGCCCTGGAGCTG  
 GACCCTGACAACGACACATAACAAGTCCAACCTCAAGATTGCAGAGCTGAAGTTACGGGAGGCGCCAAGCC  
 CTACGGGCGGCGTGGGACGCTTAGACATCGCTGGCCTGTGAACAACCCACACTTCATCACCATGGCTTC  
 GAGCTTAATGAACAGCCCCAGCTACAGCAGCTCATGTCCGGCATGATCTCCGGAGGCCATAAACCCTCTG  
 GGCACGCCAGGCAGCAGTCCGCAGCAGAGTGACCTGGCCAGCCTCATCCAGGCGGGCCAACAGTTTGCAC  
 AGCAGATGCAGCAGCAGAACCAGAGTTTGTGGAGCAGATCCGGAGCCAGGTGGTGCGCAGCCGGACACC  
 CAGTGCCAGCCATGAGGAGCAGCAAGAGTGACAACGGTGACCCGAGTGTCCCTTCGCTCCGCGGCCCTCCT  
 GGTGTTTTAGCATTTTCTCCGTCCGGCAGCTCGAGAGAGAACTGGACCTGCATGTTAAGACGGACTCGT  
 CCCCACCTTGTTTTCTTTCATCCCTCCCTTCGGTTTTGTAAGTCTTACTGGCCCCACACCTCCCTGGA  
 GGAGTCTACAGAAGACGACACACCAGCACCAGTTCCTCCAGCCACCTAGGAGCTGCAGGGAGGGGTGGGG  
 TGAGTGTGAGTCACTGAGTGACAGCCTGGGCCCTCAGGTCTCAGGCCCCACCCTGCCGGTTCTCTCTAA  
 AGGGACTTGAGTAGTCACTCTCATCCCCACTGCCAGCCCCAGCTGGGCACCAGCGTCCCACACCCTCGC  
 CTGTTGACAGTCCCAGCAGGTGCCCGCCTGCCTTATTCCAGTGGCCTGTGCCACATAGGACTGAGGC  
 CTGTGACTTCTGCCAGCGTGTGGACCATCCGTGTCTTTCCAGCTTCCCCTCCATCTTTACAGCCATC  
 AGCCAATCCTAACTTTGTGTCCAGTCCAGCACCATCCTCAGCCTGGGCAGCAGACATAGACATTGACCCA  
 TCTGTGCATCCTATCCTTGATCTCATGGAAATCAATGTCTGGGGTTGGCAGGGAGTTTGGGGTATCG  
 GCCCTGAAGCAGCCACCAGAACCATCTTTGTTGGGGTCACTGAGTGAGGGTGTGGATGTTCCACACA  
 CATTCTTGGCCCTAGGAGCAGGTGATGAGATCACAGGACAGCTGAACCCTTGGGGGGTATGATGGCATC  
 AGGCTTTGGCAGATAGTGTGAGAGCTGTGTGTGGTAGGTAGCCAGTAGGAAGATGGGCCCCCGAGGGC  
 AGCAGCGCCACCTTGGGCACAGAGTGCCTGGAGAATAAAGACAGTGTGACGCTCTGAAAAAAAAAAAAA AAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_024499

**Insert Size:** 948 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:**
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: [BC003836](#), [AAH03836](#)

RefSeq Size: 1966 bp

RefSeq ORF: 948 bp

Locus ID: 52551

UniProt ID: [Q8BJU0](#)

Cytogenetics: 10 39.72 cM

**Gene Summary:** Co-chaperone that binds misfolded and hydrophobic patches-containing client proteins in the cytosol. Mediates their targeting to the endoplasmic reticulum but also regulates their sorting to the proteasome when targeting fails. Functions in tail-anchored/type II transmembrane proteins membrane insertion constituting with ASNA1 and the BAG6 complex a targeting module. Functions upstream of the BAG6 complex and ASNA1, binding more rapidly the transmembrane domain of newly synthesized proteins. It is also involved in the regulation of the endoplasmic reticulum-associated misfolded protein catabolic process via its interaction with BAG6: collaborates with the BAG6 complex to maintain hydrophobic substrates in non-ubiquitinated states. Competes with RNF126 for interaction with BAG6, preventing the ubiquitination of client proteins associated with the BAG6 complex. Binds directly to HSC70 and HSP70 and regulates their ATPase activity.[UniProtKB/Swiss-Prot Function]