

## Product datasheet for **MG209166**

### Gspt1 (NM\_146066) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gspt1 (NM_146066) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gspt1
Synonyms:	AI314175; AI326449; AV307676; C79774; G1st; Gst-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209166 representing NM\_146066  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCGGTGGCCGAGGCCAGCGTGAGAACCTCAGCGCGCTTTCAGCCGGCAACTCAACGTCAACG  
 CCAAGCCTTTCGTCCCAACGTCCACGCCGCTGAATTCGTGCCGCTTCTCGCGGGTCCGGCCAGCC  
 GCCGCTATCCCCAGCTGGCGCAGCCGGCGGCGACCACGGAGCAGGCAGCGCGCGGGAGGCCCTCGGAA  
 CCTGTAGAGTCTCTCAAGACCAGTCGTGTGAAGGTTCAAATTCTACTGTAGCATGGAACCTTCAGAAC  
 CTGTTGTGAAAAATGGAGAGACAGAAATGTCCCCAGAAGAATCATGGGAGCACAAGAAGAAATAAGTGA  
 AGCGGAGCCAGGGGGTGGTTCTCAGGAGATGGAAGGCCACCAGAGGAAAGCACCCAAGAATGATGGAG  
 GAGGAGGAAGAAATACCGAAACCTAAGTCAGCGGTGCCACCACCGGTCTCCCAAGAAGAACATGTAA  
 ATGTAGTGTTCATCGGACATGTTGATGCAGGCAAGTCAACCATTGGAGGACAAATAATGTATTTGACTGG  
 AATGGTCGACAAAAGGACTTGAAGATGAACGAGAAGCTAAAGAAAAAACAGAGAAACTTGGTAC  
 TTGCTTTGGGCCCTTAGACACGAATCAGGAAGAACGAGACAAGGGCAAAACCGTGGAGGTGGTCTGCCT  
 ATTTTGAACGGAAAAGAGCATTTTACAATTCTAGATGCTCCTGGCCATAAGAGTTTTGTCCCAATAT  
 GATTGGTGGTGCCTCTCAAGCTGACTTGGCTGACTGGTAATCTCAGCCAGGAAAGGAGAGTTTTGAACT  
 GGATTTGAAAAAGGAGGACAGACAAGAGAATGCAATGTTGGCAAGACAGCAGGTGTCAAACCTTAA  
 TTGTGCTTATTAAGATGGATGATCCAACGGTAAACTGGAGCAACGAGAGATGAAGAATGCAAGA  
 GAACTAGTACCATTTTTGAAAAAGTTGGCTTCAATCCCAAAAAGGACATTCATTTATGCCGTGCTCA  
 GGACTGACAGGAGCGAATCTTAAAGAACAATCAGATTTCTGTCTTGGTACATTGGCTTACCATTATTTC  
 CATATCTGGATAATTTGCCAACTTCAATAGATCAGTTGATGGACCAATCAGGCTGCCAATTTGCGATAA  
 GTACAAGGATATGGGGACTGTGGTCTGGGAAAGCTGGAATCTGGATCTATTTGTAAGGCCAGCAGCTT  
 GTAATGATGCCAAATAAGCACAACGTGGAAGTCTTGAATACTTTCTGATGATGTAGAAACGGACTCTG  
 TAGCTCCAGTGAAAACCTCAAAATCAGACTGAAAGGAATTGAAGAGGAAGAGATTCTTCCAGGATTCAT  
 CCTTTGTGATCTTAATAATCTTTGTCATTCTGGACGCACATTTGATGCTCAGATAGTGATTATAGAGCAC  
 AAGTCCATCATCTGCCAGGGTATAATGCGGTGCTGCATTCATACCTGTATCGAAGAAGTCGAAATAA  
 CAGCCTTAATCTGCTTGGTAGACAAGAAATCAGGAGAGAAAAGTAAAGACTCGACCCGTTTTGTAACA  
 AGATCAAGTATGCATTGCGGTTAAGGACAGCAGGAACCATCTGCCTGGAGACCTTAAGGACTTCCCT  
 CAGATGGGACGTTTTACCTTAAGAGATGAGGGTAAGACCATTGCAATTGAAAAGTCTGAAACTGGTTC  
 CAGAGAAAAGAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209166 representing NM\_146066  
 Red=Cloning site Green=Tags(s)

MAVAEAQRENLSAAFSRQLNVNAKPFVFNVAHAEFVPSFLRGPAPPLSPAGAAGGDHGAGSGAGGPSE  
 PVESSQDQSCGSNSTVSMELSEPVVENGETEMSPESWEHKEEISEAEPGGSSGDGRPPEESTQEMME  
 EEEEIPKPKSAVAPPKKEHVNVVFIHVDAGKSTIGGQIMYLTGMVDKRTLEKYEREAKEKNRETWY  
 LSWALDTNQEERDKGKTVEVGRAYFETEKHFTILDAPGHKSFVPMIGGASQADLAVLVISARKGEFET  
 GFEKGGQTRHAMLAKTAGVKHLIVL INKMDPTVNWSNERYECKEKLVPFLKKGFNPKKDIHFMPSC  
 GLTGANLKEQSDFCPWYIGLPIPYLDNLPNFRSVDGPIRLPIVDKYKDMGTVVLGKLESGSICKGQQL  
 VMMPNKHNVVGLGILSDDVETDSVAPGENLKIRLKGIEEEEILPGFILCDLNNLCHSGRTFDAQIVIEH  
 KSIICPGYNAVLHIHTCIEEVEITALICLVDKKSGEKSRTPRFVKQDQVCIARLRTAGTICLETFKDFP  
 QMGRFTLRDEGKTIAIGKVLKLVPEKD

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<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_146066.1</a> , <a href="#">NP_666178.1</a>
<b>RefSeq Size:</b>	2359 bp
<b>RefSeq ORF:</b>	1911 bp
<b>Locus ID:</b>	14852
<b>UniProt ID:</b>	<a href="#">Q8R050</a>
<b>Cytogenetics:</b>	16 6.38 cM
<b>Gene Summary:</b>	Involved in translation termination in response to the termination codons UAA, UAG and UGA (By similarity). Stimulates the activity of ETF1 (By similarity). Involved in regulation of mammalian cell growth (By similarity). Component of the transient SURF complex which recruits UPF1 to stalled ribosomes in the context of nonsense-mediated decay (NMD) of mRNAs containing premature stop codons (By similarity).[UniProtKB/Swiss-Prot Function]