

Product datasheet for **MR209166**

Gspt1 (NM_146066) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gspt1 (NM_146066) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gspt1
Synonyms:	AI314175; AI326449; AV307676; C79774; G1st; Gst-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209166 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGGTGGCCGAGGCCAGCGTGAGAACCTCAGCGCGCTTTCAGCCGGCAACTCAACGTCAACG
 CCAAGCCTTTCGTCCTAACGTCCACGCCGCTGAATTCGTCGCGCTTCTCGCGGGTCCGGCCAGCC
 GCCGCTATCCCCAGCTGGCGCAGCCGGCGGCGACCACGGAGCAGGCAGCGCGGGAGGCCCTCGGAA
 CCTGTAGAGTCTCTCAAGACCAGTCGTGTGAAGGTTCAAATTCTACTGTAGCATGGAACCTTCAGAAC
 CTGTTGTGAAAAATGGAGAGACAGAAATGTCCCCAGAAGAATCATGGGAGCACAAGAAGAAATAAGTGA
 AGCGGAGCCAGGGGGTGGTTCTCAGGAGATGGAAGGCCACCAGAGGAAAGCACCCAAGAATGATGGAG
 GAGGAGGAAGAAATACCGAAACCTAAGTCAGCGGTGCCACCACCGTGTCCCAAGAAGGAACATGTAA
 ATGTAGTGTTCATCGGACATGTTGATGCAGGCAAGTCAACCATTGGAGGACAAAATATGTATTTGACTGG
 AATGGTCGACAAAAGGACTTGAAGATGAACGAGAAGCTAAAGAAAAAACAGAGAAACTTGGTAC
 TTGCTTGGGCCCTTAGACACGAATCAGGAAGAACGAGACAAGGGCAAAACCGTGGAGGTGGTCTGTGCC
 ATTTTGAACGGAAAAGAGCATTTCACAACTTCTAGATGCTCCTGGCCATAAGAGTTTTGTCCCAATAT
 GATTGGTGGTGCCTCTCAAGCTGACTTGGCTGACTGGTAATCTCAGCCAGGAAAGGAGAGTTTGAACCT
 GGATTTGAAAAAGGAGGACAGACAAGAGAATGCAATGTTGGCAAGACAGCAGGTGTCAAACCTTAA
 TTGTGCTTATTAAGATGGATGATCCAACGGTAAACTGGAGCAACGAGAGATGAAGAATGCAAGA
 GAACTAGTACCATTTTTGAAAAAGTTGGCTTCAATCCCAAAAAGGACATTCATTTTATGCCGTGCTCA
 GGACTGACAGGAGCGAATCTTAAAGAACAATCAGATTTCTGTCTTGGTACATTGGCTTACCATTATTTC
 CATATCTGGATAATTTGCCAACTTCAATAGATCAGTTGATGGACCAATCAGGCTGCCAATTGTCGATAA
 GTACAAGGATATGGGACTGTGGTCTGGGAAAGCTGGAATCTGGATCTATTTGTAAGGCCAGCAGCTT
 GTAATGATGCCAATAAGCACAACGTGGAAGTCTTGGAACTTTCTGATGATGTAGAACGGACTCTG
 TAGCTCCAGTGAAAACCTCAAAATCAGACTGAAAGGAATTGAAGAGGAAGAGATTCTTCCAGGATTCAT
 CCTTTGTGATCTTAATAATCTTTGTCTTCTGGACGCACATTTGATGCTCAGATAGTGATTATAGAGCAC
 AAGTCCATCATCTGCCAGGGTATAATGCGGTGCTGCATTCATACCTGTATCGAAGAAGTCGAAATAA
 CAGCCTTAATCTGCTTGGTAGACAAGAAATCAGGAGAGAAAAGTAAGACTCGACCCGTTTTGTAACA
 AGATCAAGTATGCATTGCGGTTAAGGACAGCAGGAACCATCTGCTGGAGACCTTAAGGACTTCCT
 CAGATGGGACGTTTTACCTAAGAGATGAGGGTAAGACCATTGCAATTGAAAAGTCTGAAACTGGTTC
 CAGAGAAAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209166 protein sequence
 Red=Cloning site Green=Tags(s)

MAVAEAQRENLSAAF SRQLNVNAKPFVFNVAEEFVPSFLRGPAPPLSPAGAAGGDHGAGSGAGGPSE
 PVESSQDQSCGSNSTVSMELSEPVVENGETEMSPSEESWEHKKEISEAEPGGSSGDGRPPPEESTQEMME
 EEEEEIPKPKSAVAPPKKEHVNVVFIHVDAGKSTIGGQIMYLTGMVDKRTLEKYEREAKEKNRETWY
 LSWALDNTQERDKGKTVEVGRAYFETEKHFTILDAPGHKSFVPMIGGASQADLAVLVSARKGEFET
 GFKEGGQTRHAMLAKTAGVKHLIVL INKMDPTVNWSNERYECKEKLVPFLKVKVFNPKKDIHFMPCS
 GLTGANLKEQSDFCPWYIGLPIPYLDNLPNFRSVDGPIRLPIVDKYKDMGTVVLGKLESGSICKGQQL
 VMMPNKHNVVGLGILSDDVETDSVAPGENLKIRLKGIEEEEILPGFILCDLNNLCHSGRTFDAQIVIIIEH
 KSIICPGYNAVLHIHTCIEEVEITALICLVDKKSGEKSCTRPRFVKQDQVCIARLRTAGTICLETFFKDFP
 QMGRFTLRDEGKTI AIGKVLKLVPEKD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_146066

ORF Size: 1764 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.

RefSeq: [NM_146066.2](#)

RefSeq Size: 6856 bp

RefSeq ORF: 1911 bp

Locus ID: 14852

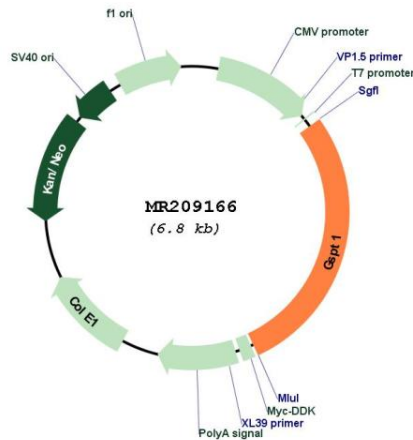
UniProt ID: [Q8R050](#)

Cytogenetics: 16 6.38 cM

MW: 64.4 kDa

Gene Summary: 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]

Product images:



Circular map for MR209166