

Product datasheet for **MG208005**

Gspt1 (BC028325) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gspt1 (BC028325) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gspt1
Synonyms:	MGC36230, MGC36735
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208005 representing BC028325
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAC**TTT**CAGAACCTGTTGTAGAAAATGGAGAGACAGAAATGTCCCAAGAAATCATGGGAGCAC
 AAGAAGAAATAAGTGAAGCGGAGCCAGGGGGTGGTTCTCAGGAGATGGAAGGCCACCAGAGGAAAGCAC
 CCAAGAAATGATGGAGGAGGAGGAAGAAATACCGAAACCTAAGTCAGCGGTGGCACCACCAGGTGCTCC
 AAGAAGGAACATGTAATGTAGTGTTCATCGGACATGTTGATGCAGGCAAGTCAACCATTGGAGGACAAA
 TAATGTATTTGACTGGAATGGTCGACAAAAGGACACTTGAGAAGTATGAACGAGAAGCTAAAGAAAAA
 CAGAGAACTTGGTACTTGTCTTGGCCTTAGACACGAATCAGGAAGAACGAGACAAGGGCAAACCGTG
 GAGGTGGTCTGCCTATTTTGAACGGAAAAGAAGCATTTTACAATTCTAGATGCTCTGGCCATAAGA
 GTTTTGTCCAAATATGATTGGTGGTGCCTCTCAAGCTGACTGGCTGTACTGGTAACTCAGCCAGGAA
 AGGAGAGTTTGAACCTGGATTTGAAAAGGAGGACAGACAAGAGAACATGCAATGTTGGCAAAGACAGCA
 GGTGTCAAACACTTAATTGTGCTTATAATAAGATGGATGATCCAACGGTAACTGGAGCAACGAGAGAT
 ATGAAGAATGTAAGAGAAACTAGTACCATTTTGAAGAAAGTTGGCTTCAATCCAAAAAGGACATTCA
 TTTTATGCCGTGCTCAGGACTGACAGGAGCGAATCTTAAAGAACAATCAGATTTCTGTCCTTGGTACATT
 GGCTTACCATTTATTCCATATCTGGATAATTTGCCAAACTTCAATAGATCAGTTGATGGACCAATCAGGC
 TGCCAATTGTCGATAAGTACAAGGATATGGGGACTGTGGTCTGGGAAAGCTGGAATCTGGATCTATTTG
 TAAAGGCCAGCAGCTTGTAAATGATGCCAAATAAGCACACCTGGAAGTCTTGAATACTTTCTGATGAT
 GTAGAAACGGACTCTGTAGCTCCAGGTGAAAACCTCAAATCAGACTGAAAGGAATTGAAGAGGAAGAGA
 TTCTCCAGGATTCATCCTTTGTGATCTTAATAATCTTTGTCATCTGGACGCACATTTGATGCTCAGAT
 AGTGATTATAGAGCACAAAGTCCATCATCTGCCAGGGTATAATGCGGTGCTGCATATTCATACCTGTATC
 GAAGAAGTCGAAATAACAGCCTTAATCTGCTTGGTAGACAAGAAATCAGGAGAGAAAAGTAAAGACTCGAC
 CCCGTTTTGTAACAAGATCAAGTATGCATTGCGCGTTTAAAGACAGCAGGAACCATCTGCCTGGAGAC
 CTTTAAAGACTTCCCTCAGATGGGACGTTTTACCTTAAAGAGATGAGGGTAAGACCATTGCAATTGAAAA
 GTTCTGAAACTGGTTCAGAGAAAGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208005 representing BC028325
 Red=Cloning site Green=Tags(s)

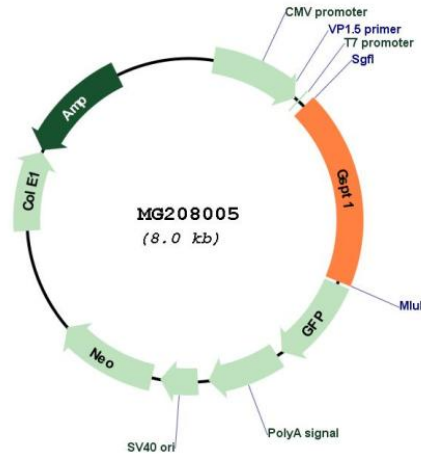
MELSEPVVENGETEMSPESWEHKEEISEAEPGGSSGDGRPPEESTQEMMEEEEEIPKPKSAVAPP
 GAPKKEHVNVVFIGHVDAGKSTIGGIMYLTGMVDKRTLEKYEREAKEKNRETWYLSWALDTNQEERDKGKT
 VEVGRAYFETEKHFITILDAPGHKSFVPMIGGASQADLAVLVISARKGEFETGFEKGGQTRHAMLAKTA
 GVKHLIVL INKMDPTVNWNSNEREYEECKELVPFLKKGVFNPCKDIHFMPCSGLTGANLKEQSDFCPWYI
 GLPFIPYLDNLPNFRSVDGP IRLPIVDKYKDMGTVVLGKLESGSICKGQQLVMMPNKHNV EVLGILSDD
 VETDSVAPGENLKIRLKGIEEEEILPGFILCDLNNLCHSGRTFDAQIVIEHKSIICPGYNAVLIHTCI
 EEVEITALICLVDKKSGEKSKTRPRFVKDQVCIARLRTAGTICLETFKDFPQMGRFTLRDEGKTAIGK
 VLKLVPEKD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Plasmid Map:



ACCN: BC028325

ORF Size: 1497 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: [BC028325.1](#)

RefSeq Size: 2167 bp

RefSeq ORF: 1499 bp

Locus ID: 14852

Cytogenetics: 16 6.38 cM

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]