

Product datasheet for **MR218849**

Gspt1 (NM_001130008) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gspt1 (NM_001130008) 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:

>MR218849 representing NM_001130008
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCCTAGCAGCGCGGTGGCGCGGTGGCGCGCGCGGGAGCAGCAGCAGCAGCGACTCTGCGC
 CCGACTGCTGGGACCAGACGGATATGGAGGCCCGCGGCCGGGCCTTGGCGCGCGCGGGAGCGGCAG
 CGGCTCCATGGCCGCGGTGGCCGAGGCCAGCGTGAGAACCTCAGCGCGGCTTTCAGCCGCAACTCAAC
 GTCAACGCCAAGCCTTTCGTCGCCAACGTCCACGCGCTGAATTCGTGCCGTCTTCTGCGGGTCCGG
 CCCAGCCGCCCTATCCCAGCTGGCGCAGCCGGAGGCGACCACGGAGCAGGCAGCGCGCGGGAGGCC
 TTCGGAACCTGTAGAGTCTCTCAAGACCAGTCGTGTGAAGTTCAAATTCCTACTGTTAGCATGAACTT
 TCAGAACCTGTTGAAAATGGAGAGACAGAAATGTCCCAGAAGAATCATGGAGCACAAAGAAGAAATAA
 GTGAAGCGGAGCCAGGGGTGGTTCCTCAGGAGATGGAAGGCCACCAGAGGAAAGCACCCAAAGAAATGAT
 GGAGGAGGAGGAAAGAAATACCGAAACCTAAGTCAGCGGTGGCACCACCAGGTGCTCCAAGAAGGAACAT
 GTAATGTAGTGTTCATCGGACATGTTGATGCAGGCAAGTCAACCATTGGAGGACAAATAATGTATTTGA
 CTGGAATGGTCGACAAAAGGACACTTGAGAAGTATGAACGAGAAGCTAAAGAAAAAACAGAGAACTTG
 GTACTTGTCTTGGGCCTTAGACACGAATCAGGAAGAACGAGACAAGGGCAAAACCGTGGAGGTGGGTCT
 GCCTATTTTGAACCGGAAAAGAAGCATTTTACAATTCTAGATGCTCTGGCCATAAGAGTTTTGTCCAA
 ATATGATTGGTGGTGCCTCTCAAGCTGACTTGGCTGTACTGGTAACTCAGCCAGGAAAGGAGAGTTTGA
 AACTGGATTTGAAAAGGAGGACAGACAAGAGAACATGCAATGTTGGCAAAGACAGCAGGTGTCAAACAC
 TTAATTGTGCTTATTAATAAGATGGATGATCCAACGGTAACTGGAGCAACGAGAGATATGAAGAATGTA
 AAGAGAACTAGTACCATTTTGA AAAAAGTTGGCTTCAATCCAAAAAGGACATTCATTTTATGCCGTG
 CTCAGGACTGACAGGAGCGAATCTTAAAGAACAATCAGATTTCTGTCCTTGGTACATTGGCTTACCATTT
 ATTCCATATCTGGATAATTTGCCAACTTCAATAGATCAGTTGATGGACCAATCAGGCTGCCAATTGTCG
 ATAAGTACAAGGATATGGGACTGTGGTCTGGGAAAGCTGGAATCTGGATCTATTTGTAAGGCCAGCA
 GCTTGTAAATGATGCCAAATAAGCACAACGTGGAAGTTCTTGAATACTTTCTGATGATGTAGAAACGGAC
 TCTGTAGCTCCAGGTGAAAACCTCAAAATCAGACTGAAAGGAATTGAAGAGGAAGAGATTCTCCAGGAT
 TCATCCTTTGTGATCTTAATAATCTTTGTCATTCTGGACGCACATTTGATGCTCAGATAGTATTATAGA
 GCACAAGTCCATCATCTGCCAGGTATAATGCGGTGCTGCATATTCATACCTGTATCGAAGAAGTCGAA
 ATAACAGCCTTAATCTGCTTGGTAGACAAGAAATCAGGAGAGAAAAGTAAGACTCGACCCGTTTTGTAA
 AACAAAGATCAAGTATGCATTGCGGTTTTAAGGACAGCAGGAACCATCTGCCTGGAGACCTTTAAGGACTT
 CCCTCAGATGGGACGTTTTACCTTAAGAGATGAGGGTAAGACCATTGCAATTGAAAAAGTTCTGAAACTG
 GTTCCAGAGAAAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218849 representing NM_001130008
 Red=Cloning site Green=Tags(s)

MDPSSGGGGGGGGSSSSSDSAPDCWDQTDMEAPGPGPCGGGGSGSGSMAAVAEAQRENLSAAFSRQLN
 VNAKPFVFNVHAAEFVPSFLRGPAPPLSPAGAAGGDHGAGSGAGGPSEPVSSQDQSCEGSNSTVSMEL
 SEPVENGETEMSPESWEHKKEISEAEPGGSSGDGRPPEESTQEMEEEEEEIPKPKSAVAPPGAPKKEH
 VNVVFIGHVDAGKSTIGGQIMYL TGMVDKRTLEKYEREAKEKNRETWYLSWALDTNQEERDKGKTVEVGR
 AYFETEKKHFTILDAPGHKSFVPMNIGGASQADLAVLVI SARKGEFETGFEEKGGQTRHAMLAKTAGVKH
 L I V L I N K M D D P T V N W S N E R Y E E C K E K L V P F L K K V G F N P K K D I H F M P C S G L T G A N L K E Q S D F C P W Y I G L P F
 I P Y L D N L P N F N R S V D G P I R L P I V D K Y K D M G T V V L G K L E S G I C K G Q Q L V M P N K H N V E V L G I L S D D V E T D
 S V A P G E N L K I R L K G I E E E E I L P G F I L C D L N N L C H S G R T F D A Q I V I I E H K S I I C P G Y N A V L H I H T C I E E V E
 I T A L I C L V D K K S G E K S K T R P R F V K Q D Q V C I A R L R T A G T I C L E T F K D F P Q M G R F T L R D E G K T I A I G K V L K L
 V P E K D

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001130008

ORF Size: 1905 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_001130008.1](#), [NP_001123480.1](#)

RefSeq Size: 6853 bp

RefSeq ORF: 1908 bp

Locus ID: 14852

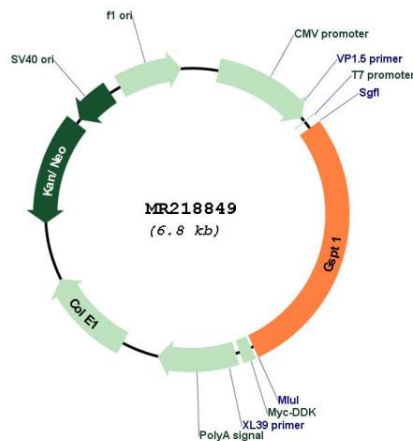
UniProt ID: [Q8R050](#)

Cytogenetics: 16 6.38 cM

MW: 69 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 MR218849