

Product datasheet for **MR218441**

Gspt2 (NM_008179) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gspt2 (NM_008179) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gspt2
Synonyms:	MGC143748; MGC143749
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR218441 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATCTCGGCAGCAGCAGCGACTCGGCTCCCGACTGCTGGGATCAGGTGGACATGGAAGCCCCGGTT
CGGCTCCGAGCGGGGATGGAATCGCCCCGAGCCATGGCAGCGGCTGAGGCCGCGGAAGCCGAGGCCCA
GCGCAAGCATCTCAGCTTGGCCTTCAGCAGTCAGCTCAACATCCACGCCAAACCTTTCGTGCCTAGCGTA
AGCGCAGCGGAGTTCGTGCCGTCTTCTGCTGGATCGGCCAGCCGCCGCCCCACAGCCTCCAGCT
GCGACGAAACCTGCATCGGTGGCGCCGGGAGCCTGAAGGTAACGGATGGAATGGGAGCACCTGTAGA
ACCTTCCAAGATGGCCCTTATGTCTGGGAGGTTCCAGTTCAGTTGTTACCATGGAACCTTTCAGAA
CCTGTTGTAGAAAATGGAGAGGTGGAGATGGCCCTAGAAGAATCTGGGAGCTTAAAGAAGTGAGTGAAG
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TTGACAGAAGGACACTTGAGAAATACGAACGAGAAGCTAAGGAGAAGAATAGAGAGACCTGGTACTTGTC
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GCGGTGCCTCTCAAGCCGATTTAGCTGTGCTGGTATCTCTGCCAGGAAAGGGGAATTTGAGACTGGATT
TGAAAAAGGTGGCAGACAAGAGAACATGCAATGCTGGCCAAAACAGCAGGGTAAAATACTTAATAGTG
CTTATTAATAAGATGGATGACCCACAGTAGATTGGAGCAGTGAGCGATATGAAGAATGTAAGAAAAAC
TGGTGCCTTTTTGAAAAAAGTTGGTTTCAGTCCAAAAAAGGACATTCATTTATGCCCTGCTCAGGACT
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CCAGGTGAAAACCTCAAATCAGACTGAAAGGGATTGAAGAGGAAGAGATTCTCCAGGCTTCATACTTT
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TTGATCTCCTTAGTAGACAAAAGTCAGGAGAAAAAGCAAGACACGGCCCCGCTTTGTGAAGCAAGACC
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GGTCTGTTTTACTTTAAGAGATGAGGGTAAAACATCGCCATTGGAAAAGTTCTGAAGCTGGTCCCAGAG
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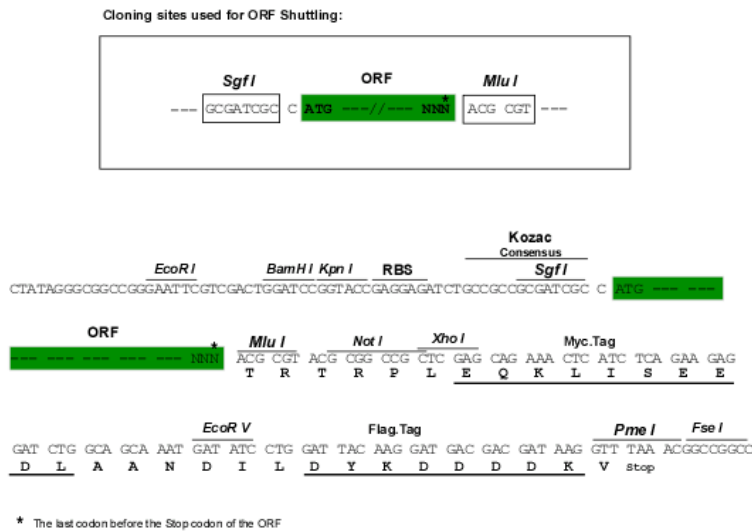
Protein Sequence: >MR218441 protein sequence
Red=Cloning site Green=Tags(s)

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MDLGSSSDSAPDCWDQVDMEAPGSAPSGDGIAPAAMAAAEAAEAEQRKHLSLAFSSQLNIHAKPFVPSV
SAAEFVPSFLPGSAQPPAPTASSCDETCIGGAGEPEGKRMWEGAPVPSKDGPLVSWEGSSSVVTMELSE
PVVENGEVEMALEESWELKEVSEAKPEASLGDAGPPEESVKEVMEEKEEVRKSKSVSIPSGAPKKEHVNV
VFIGHVDAGKSTIGGQIMFLTGMVDRRTLEKYEREAKEKNRETWYLSWALDTNQEERDKGKTVEVGRAYF
ETEKKHFTILDAPGHKSFVPMIGGASQADLAVLVI SARKGEFETGFEKGGQTRHAMLAKTAGVKYLIV
LINKMDDPTVDWSSERYEECKELVPFLKKGVSFSPKDIHFMPCSGLTGANIKEQSDFCPWYTG LFPFIPY
LDLSPNPNR SIDPIRLPIVDKYKDMGT VVLGKLESGSIFKGGQLVMMPNKSVEVLGIVSDDAETDFVA
PGENLKI RLKGI EEEEEILPGF ILCEPSNLCHSGRTFDVQIV IIEHKSIIICPGYNV LHIHTCIEEVEITA
LISLV DKKSGEKS KTRPRFVKQDQVCIARLRTAGTICLETFKDFPQMGRFTLRDEGK TIAIGKVLKLVPE
KD
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008179

ORF Size: 1899 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_008179.2](#), [NP_032205.2](#)

RefSeq Size: 2508 bp

RefSeq ORF: 1899 bp

Locus ID: 14853

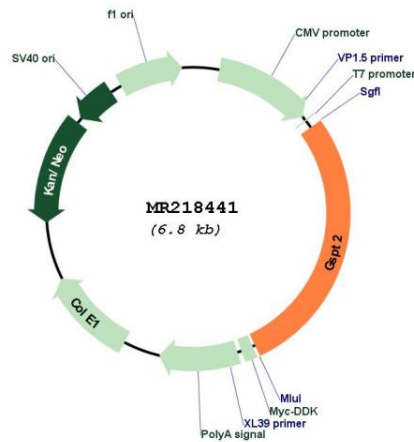
UniProt ID: [Q149F3](#)

Cytogenetics: X C3

MW: 69.1 kDa

Gene Summary: Involved in translation termination in response to the termination codons UAA, UAG and UGA. May play a role as a potent stimulator of the release factor activity of ETF1. Exhibits GTPase activity, which is ribosome- and ETF1-dependent. May play a role in cell cycle progression. 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 MR218441