

Product datasheet for **MG218441**

Gspt2 (NM_008179) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gspt2 (NM_008179) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gspt2
Synonyms:	MGC143748; MGC143749
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218441 representing NM_008179
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCTCGGCAGCAGCAGCGACTCGGCTCCCGACTGCTGGGATCAGGTGGACATGGAAGCCCCGGTT
 CGGCTCCGAGCGGGATGGAATCGCCCCGAGCCATGGCAGCGGCTGAGGCCGCGGAAGCCGAGGCCCA
 GCGCAAGCATCTCAGCTTGGCCTTCAGCAGTCAGCTCAACATCCACGCCAAACCTTTCGTGCCTAGCGTA
 AGCGCAGCGGAGTTCGTGCCGTCTTCTGCTGGATCGGCCAGCCGCCCGCCCCACAGCCTCCAGCT
 GCGACGAAACCTGCATCGGTGGCGCCGGGAGCCTGAAGGTAACGGATGGAATGGGAGCACCTGTAGA
 ACCTTCCAAGATGGCCCTTGTGTCTGGGAGGTTCCAGTTCAGTTGTTACCATGGAACCTTTCAGAA
 CCTGTTGTAGAAAATGGAGAGGTGGAGATGGCCCTAGAAGAATCTGGGAGCTTAAAGAAGTGAGTGAAG
 CAAAGCCTGAGGCTTCTTGGGAGATGCAGGGCCCCAGAAGAAAGTGCAAGGAAGTGATGGAGGAGAA
 AGAGGAAGTAAGGAAATCAAATCTGTGCCATACCATCAGGTGCACCTAAGAAAGAACAGTAAATGTG
 GTCTTCATTGGGCATGTGGATGCTGGCAAGTCAACCATTGGAGGACAAATATGTTTTGACAGGAATGG
 TTGACAGAAGGACACTTGAGAAATACGAACGAGAAGCTAAGGAGAAGAATAGAGAGACCTGGTACTTGTC
 CTGGGCCCTTAGATACAAACCAGGAAGAAGCAGACAAAGGTAACAGTGGAAAGTGGGCCGTGCGTATTTT
 GAAACGGAAAAGAAGCATTTTACAATCCTAGATGCCCTGGCCACAAGAGTTTTGTCCCAATATGATTG
 GCGGTGCCTCTCAAGCCGATTTAGCTGTGCTGGTATCTCTGCCAGGAAAGGGGAATTTGAGACTGGATT
 TGAAAAAGGTGGCAGACAAGAGAACATGCAATGCTGGCCAAAACAGCAGGGTAAAATACTTAATAGTG
 CTTATTAATAAGATGGATGACCCACAGTAGATTGGAGCAGTGAGCGATATGAAGAATGTAAGAAAAAC
 TGGTGCCCTTTTGAAAAAAGTTGGTTTCAGTCCAAAAAAGGACATTCATTTATGCCCTGCTCAGGACT
 GACTGGAGCAAAATATTAAGAGCAATCTGATTTCTGCTTGGTACACCGGATTACCATTTATTCGGTAT
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 AGGATATGGGCACTGTGGTCTGGGTAAGCTGGAATCAGGATCCATTTTTAAAGGCCAGCAGCTTGATG
 ATGCCAAACAAGCACAGTGTGGAAGTTCTAGGAATCGTTTCTGATGATGCCGAGACTGATTTTGTAGCT
 CCAGGTGAAAACCTCAAATCAGACTGAAAGGATTGAAGAGGAAGAGATTCTCCAGGCTTCATACTTT
 GTGAACCCAGTAATCTTTGCCATCCGGACGCACATTTGATGTTCCAGATAGTGATCATTGAGCACAAGTC
 TATCATCTGCCAGGTTAATGCGGTGCTTACATTCATACTTGTATTGAGGAGTTGAAATAACAGCC
 TTGATCTCCTTAGTAGACAAAAGTCAGGAGAAAAAGCAAGACACGGCCCCGCTTTGTGAAGCAAGACC
 AAGTGTGATTGCCCGTTAAGGACAGCAGGAATATCTGCCCTGGAGACATTTAAAGATTTCTCAGAT
 GGGTCGTTTTACTTTAAGAGATGAGGGTAAAACATCGCCATTGGAAAAGTTCTGAAGCTGGTCCAGAG
 AAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218441 representing NM_008179
 Red=Cloning site Green=Tags(s)

MDLGSSSDSAPDCWDQVDMEAPGSAPSGDGIAPAAMAAEAAEAEQRKHL SLAFSSQLNIHAKPFVPSV
 SAAEFVPSFLPGSAQPPAPTASSCDETCIGGAGEPEGKRMEWGAPVEPSKDGPLVSWEGSSSVVTMELSE
 PVENGEVEMALEESWELKEVSEAKPEASLGDAGPPEESVKEVMEEKEEVRKSKSVSIPSGAPKKEHVNV
 VFIGHVDAGKSTIGGQIMFLTGMVDRRTLEKYEREAKEKNRETWYLSWALDTNQEERDKGKTVEVGRAYF
 ETEKKHFTILDAPGHKSFVPMIGGASQADLAVLVI SARKGEFETGFEGGQTRHAMLAKTAGVKYLIV
 LINKMDDPTVDWSSERYECKELVPFLKKGVSFVKKDIHFMPCSGLTGANIKEQSDFCPWYTGLPFIPY
 LDSLPNPNRSIDGPIRLPIVDKYKDMGTVVLGKLESGSIFKGGQLVMMPNKHVSVEVLGIVSDDAETDFVA
 PGENLKIIRLKGIEEEEILPGFILCEPSNLCHSGRTFDVQIVIEHKSIIICPGYNVLIHTCIEEVEITA
 LISLVDKKSGEKSRTPRPFVKQDQVCIARLRTAGTICLETFKDFPQMGRTLRDEGKTIAGKVLKLVPE
 KD

TRTRPLE - GFP Tag - V

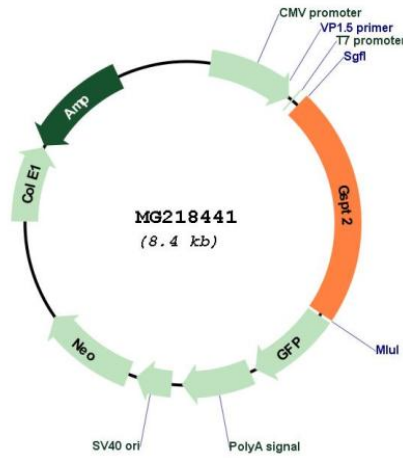
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_008179

ORF Size: 1896 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:	<ol style="list-style-type: none">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
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]