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# Product datasheet for MC219902

## Gspt2 (NM_008179) Mouse Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Tag:** | Tag Free |
| **Symbol:** | Gspt2 |
| **Synonyms:** | MGC143748; MGC143749 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**Fully Sequenced ORF:**

>MC219902 representing NM_008179
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCTCGGCAGCAGCAGCGACTCGGCTCCCGACTGCTGGGATCAGGTGGACATGGAAGCCCCGGGTT
CGGCTCCGAGCGGGGATGGAATCGCCCCCGCAGCCATGGCAGCGGCTGAGGCCGCGGAAGCCGAGGCCCA
GCGCAAGCATCTCAGCTTGGCCTTCAGCAGTCAGCTCAACATCCACGCCAAACCTTTCGTGCCTAGCGTA
AGCGCAGCGGAGTTCGTGCCGTCCTTCCTGCCTGGATCGGCCCAGCCGCCCGCCCCCACAGCCTCCAGCT
GCGACGAAACCTGCATCGGTGGCGCCGGGGAGCCTGAAGGTAAACGGATGGAATGGGGAGCACCTGTAGA
ACCTTCCAAAGATGGCCCTTTAGTGTCGTGGGAGGGTTCCAGTTCAGTTGTTACCATGGAACTTTCAGAA
CCTGTTGTAGAAAATGGAGAGGTGGAGATGGCCCTAGAAGAATCTTGGGAGCTTAAAGAAGTGAGTGAAG
CAAAGCCTGAGGCTTCTTTGGGAGATGCAGGGCCCCCAGAAGAAAGTGTCAAGGAAGTGATGGAGGAGAA
AGAGGAAGTAAGGAAATCAAAATCTGTGTCCATACCATCAGGTGCACCTAAGAAAGAACACGTAAATGTG
GTCTTCATTGGGCATGTGGATGCTGGCAAGTCAACCATTGGAGGACAAATAATGTTTTTGACAGGAATGG
TTGACAGAAGGACACTTGAGAAATACGAACGAGAAGCTAAGGAGAAGAATAGAGAGACCTGGTACTTGTC
CTGGGCCTTAGATACAAACCAGGAAGAACGAGACAAGGGTAAAACAGTGGAAGTGGGCCGTGCGTATTTT
GAAACGGAAAAGAAGCATTTCACAATCCTAGATGCCCCTGGCCACAAGAGTTTTGTCCCAAATATGATTG
GCGGTGCCTCTCAAGCCGATTTAGCTGTGCTGGTGATCTCTGCCAGGAAAGGGGAATTTGAGACTGGATT
TGAAAAAGGTGGACAGACAAGAGAACATGCAATGCTGGCCAAAACAGCAGGGGTAAAATACTTAATAGTG
CTTATTAATAAGATGGATGACCCCACAGTAGATTGGAGCAGTGAGCGATATGAAGAATGTAAAGAAAAAC
TGGTGCCCTTTTTGAAAAAAGTTGGTTTCAGTCCAAAAAAGGACATTCACTTTATGCCCTGCTCAGGACT
GACTGGAGCAAATATTAAAGAGCAATCTGATTTCTGTCCTTGGTACACCGGATTACCATTTATTCCGTAT
TTGGATAGTTTGCCAAACTTCAACAGATCAATTGATGGGCCAATTAGGTTGCCAATTGTGGATAAGTACA
AGGATATGGGCACTGTGGTCCTGGGTAAGCTGGAATCAGGATCCATTTTTAAAGGCCAGCAGCTTGTGAT
GATGCCAAACAAGCACAGTGTGGAAGTTCTAGGAATCGTTTCTGATGATGCCGAGACTGATTTTGTAGCT
CCAGGTGAAAACCTCAAAATCAGACTGAAAGGGATTGAAGAGGAAGAGATTCTTCCAGGCTTCATACTTT
GTGAACCCAGTAATCTTTGCCATTCCGGACGCACATTTGATGTTCAGATAGTGATCATTGAGCACAAGTC
TATCATCTGCCCAGGTTATAATGCGGTGCTTCACATTCATACTTGTATTGAGGAGGTTGAAATAACAGCC
TTGATCTCCTTAGTAGACAAAAAGTCAGGAGAAAAAAGCAAGACACGGCCCCGCTTTGTGAAGCAAGACC
AAGTGTGCATTGCCCGGTTAAGGACAGCAGGAACTATCTGCCTGGAGACATTTAAAGATTTTCCTCAGAT
GGGTCGTTTTACTTTAAGAGATGAGGGTAAAACAATCGCCATTGGAAAAGTTCTGAAGCTGGTCCCAGAG
AAGGACTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_008179

**Insert Size:** 1899 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

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|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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. |
| **Note:** | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| **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] |