

Product datasheet for **RG206259**

GSPT2 (NM_018094) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSPT2 (NM_018094) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GSPT2
Synonyms:	ERF3B; GST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206259 representing NM_018094
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATTCGGGTAGCAGCAGCAGCGACTCGGCGCCGATTGCTGGGACCAGGTGGACATGGAATCCACGG
 GGTCGGCCCCGAGCGGGATGGAGTCTCCTCTGCGGTGGCCGAGGCCAGCGCGAGCCCCCTCAGCTCGGC
 TTTCAGCCGTAAGCTCAACGTCAACGCCAAGCCCTTCGTGCCTAACGTACACGCCCGGAGTTCGTGCCG
 TCCTTCTCGGGGCCCCGACTCAGCCGCCACCCTCCCGCCGGCTCCGGCAGCAACGATGAAACCTGCA
 CCGGCGCGGGATACCCTCAAGGTAAAAGGATGGGACGGGGGCACCTGTGGAACCTCCCGAGAGGAACC
 GTTAGTGTGCTTGAAGTTCCAATTACGCGTTACCATGGAACCTTTCAGAACCTGTTGTAGAAAATGGA
 GAGGTGGAATGGCCCTAGAAGAATCATGGGAGCACAGTAAAGAAGTAAGTGAAGCCGAGCCTGGGGTG
 GTTCTCGGGAGATTCAGGGCCCCAGAAGAAAGTGGCCAGGAAATGATGGAGAAAAAGAGGAAATAAG
 AAAATCCAAATCTGTGATCGTACCCTCAGGTGCACCTAAGAAAGAACACGTAATGTAGTATTCATTGGC
 CATGTAGACGCTGGCAAGTCAACCATCGGAGGACAGATAATGTTTTGACTGGAATGGTTGACAAAAGAA
 CACTGGAGAAATATGAAAGAGAAGCTAAGGAAAAAACAGAGAAACCTGGTATTTGTCCTGGGCCTTAGA
 TACAAATCAGGAGGAACGAGACAAGGTTAAAACAGTCGAAGTGGGTCTGCCTATTTTGAACAGAAAGG
 AAACATTTCAAAATTTAGATGCCCTGGCCACAAGAGTTTTGTCCCAATATGATTGGTGGTGTCTCTC
 AAGCTGATTTGGCTGTGCTGGTCATCTCTGCCAGGAAAGGAGAGTTTTGAAACTGGATTTGAAAAAGTGG
 ACAGACAAGAGAACATGCGATGTTGGCAAAAACGGCAGGGTAAAACATTTAATAGTCTTATTAATAAG
 ATGGATGATCACACAGTAAATTTGGAGCATCGAGAGATATGAAGAATGTAAGAAAAACTGGTGCCTTTT
 TGAAAAAAGTAGGCTTCAGTCCAAAAAAGGACATTCACCTTATGCCTGCTCAGGACTGACCGGAGCAAA
 TATTAAGAGCAGTCAGATTTCTGCCCTTGGTACACTGGATTACCATTTATCCGTATTTGGATAACTTG
 CCAAACTTCAACAGATCAATTGATGGACCAATAAGACTGCCAATTGTGGATAAGTACAAAGATATGGGCA
 CTGTGGTCTGGGAAAGCTGGAATCCGGGTCCATTTTTAAAGGCCAGCAGCTCGTATGATGCCAAACAA
 GCACAATGTAGAAGTTCTTGAATACTTTCTGATGATACTGAAACTGATTTTGTAGCCCCAGGTGAAAC
 CTCAAAATCAGACTGAAGGGAATGAAGAAGAAGAGATTCTCCAGGATTCATACTTTGTATCCTAGTA
 ACCTCTGCCATTCTGGACGCACGTTTGTGTTTGTGATAGTATTGAGCACAAATCCATCATCTGCC
 AGGTTATAATGCGGTGCTGCACATTACTTGTATTGAGGAAGTTGAGATAACAGCGTTAATCTCCTTG
 GTAGACAAAAATCAGGAGAAAAAGTAAGACACGACCCCGCTTCGTGAAACAAGATCAAGTATGCATTG
 CTGTTTTAAGGACAGCAGGAACCATCTGCCTCGAGACGTTCAAAGATTTCTCAGATGGTTCGTTTTAC
 TTTAAGAGATGAGGGTAAGACCATTGCAATTGAAAAAGTTCTGAAATTGGTCCAAGAGAAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206259 representing NM_018094
 Red=Cloning site Green=Tags(s)

MDSGSSSDSAPDCWDQVDMESTGSAPSGDGVSSAVAEAQREPLSSAFSRKLNVNAPFVFPNVHAAEFVP
 SFLRGPTQPPTLPAGSGSNDCTGAGYPPQKRMGRGAPVEPSREEPLVSLGNSAVTMELSEPVVENG
 EVEMALEESWEHSKEVSEAEPPGGSSGDSGPPEESGQEMMEEKEEIRKSKSVIVPSGAPKKEHVNVVFIG
 HVDAGKSTIGGQIMFLTGMVDKRTLEKYEREAKEKNRETWYLSWALDTNQEERDKGKTVEVGRAYFETER
 KHFTILDAPGHKSFVPMIIGGASQADLAVLVISARKGEFETGFEKGGQTRHAMLAKTAGVKHLIVLINK
 MDDHTVNWSIEREYEECKEKLVPFLKKGVSPPKDIHFMPCSGLTGANIKEQSDFCPWYTGPFIPYLDNL
 PNFNRSIDGPIRLPIVDKYKDMGTVVLGKLESGSIFKGGQLVMMPNKHNVVLGILSDDTETDFVAPGEN
 LKIRLKGIEEEEILPGFILCDPSNLCHSGRTFDVQIVIIIEHKSIIICPGYNAVLHIHTCIEEVEITALISL
 VDKKSGEKSCTRPRFVKQDQVCIARLRTAGTICLETFKDFPQMGFRFLRDEGKIIAIGKVLKLVQEKD

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_018094

ORF Size: 1884 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018094.2](#), [NP_060564.2](#)

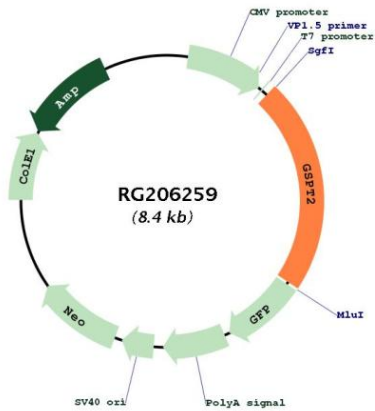
RefSeq Size: 2503 bp

RefSeq ORF: 1887 bp

Locus ID: 23708

UniProt ID: [Q8IYD1](#)
Cytogenetics: Xp11.22
Domains: GTP_EFTU, GTP_EFTU_D3, GTP_EFTU_D2
Gene Summary: This gene encodes a GTPase that belongs to the GTP-binding elongation factor family. The encoded protein is a polypeptide release factor that complexes with eukaryotic peptide chain release factor 1 to mediate translation termination. This protein may also be involved in mRNA stability.[provided by RefSeq, Mar 2010]

Product images:



Circular map for RG206259