

Product datasheet for **SC118827**

GSPT1 (NM_002094) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSPT1 (NM_002094) Human Untagged Clone
Tag:	Tag Free
Symbol:	GSPT1
Synonyms:	551G9.2; eRF3a; ETF3A; GST1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118827 sequence for NM_002094 edited (data generated by NextGen Sequencing)

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ATGGATCCGGGCAGTGGCGGGCGGCGGGCGGGCGGGCGGGCGGGAGCAGCAGCGGC
AGCAGCAGCAGCGACTCGGCGCCTGACTGCTGGGACCAGGCGGACATGGAAGCCCCGGG
CCGGGCCCTTTCGGCGGNNNNNNNNNTGGCGGGCGGGCCGAGGCCACGGGGAGAAC
CTCAGCGCGGCCCTCAGCCGGCAACTCAACGTCAACGCCAAGCCCTTCGTGCCAACGTC
CAGCGCGCGGATTCGTGCCGCTCTTCTGCGGGGCCCGGCGAGCGCCGCCACCCACAGCT
GGCGGGCGCCCAATAAACCACGGAGCCGGCAGCGCGGGAGGCGGTGCGGCACCTGTG
GAATCCTCTCAAGAGGAACAGTCATTGTGTGAAGTTCAAATTCAGCTGTTAGCATGGAA
CTTTCAGAACCTATTGTAGAAAATGGAGAGACAGAAAATGTCTCCAGAAGAATCATGGGAG
CACAAAGAAGAAATAAGTGAAGCAGAGCCAGGGGTGGTTCCTTGGGAGATGGAAGGCCG
CCAGAGGAAAGTGCCCATGAAATGATGGAGGAGGAAGAGGAAATCCAAAACCTAAGTCT
GTGTTGACCCGCGAGTCTCCTAAGAAAGAGCATGTAATGTAGTATTCATTGGGCAC
GTAGATGCTGGCAAGTCAACCATTGGAGGACAAAATATGATTTGACTGGAATGGTTGAC
AAAAGGACGCTTGAAGATGAAAGAGAGCTAAAGAGAAAAACAGAGAACTTGGTAC
TTGTCTTGGGCCCTTAGACACAAATCAGGAAGAACGAGACAAGGGTAAAACAGTAGAAGTG
GGTCGTGCCTATTTTGAACCGAAAAGAAGCATTTCACAATTCTAGATGCCCTGGCCAC
AAGAGTTTGTCCAAATATGATTGGTGGTGCCTCTCAAGCTGATTTGGCTGTGCTGTA
ATCTCAGCCAGGAAAGGAGAGTTTGAACCTGGATTTGAAAAGGAGGACAGACAAGAGAA
CATGCAATGTTGGCAAAGACAGCAGGTGTAACACCTAATTGTGCTAATTAATAAGATG
GATGATCCAACAGTAAATGGAGCAATGAGAGATATGAAGAATGTAAGGAGAACTAGTG
CCATTTTTGAAAAAGTTGGCTTCAATCCAAAAAGGACATTCATTTATGCCCTGCTCA
GGACTTACTGGAGCAAATCTCAAAGAGCAGTCGGATTTCTGCTTGGTACATTGGATTA
CCGTTTATTCCATATCTGGATAATTTGCCGAACCTCAATAGATCAGTTGATGGACCAATC
AGGCTGCCAATTGTGGATAAGTACAAGGATATGGGCACTGTGGTCTGGGAAAGCTGGAA
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GTTCTTGAATACTTTCCGATGATGTAGAGACTGATACCGTAGCCCCAGGTGAAAACCTC
AAAATCAGACTGAAAGGAATTGAAGAAGAGGAGATTCTCCAGGGTTTATACTTTGTGAT
CCTAATAATCTTTGTCATTCTGGACGCACATTTGATGCCAGATAGTGATTATAGAGCAC
AAATCCATCATCTGCCAGGCTATAATGCGGTGCTGCATATTCATACCTGTATTGAGGAG
GTGAAAATAACAGCCTTAATCTGCTTGGTAGACAAAAATCAGGAGAAAAAGTAAGACC
CGACCCCGTTTTGTGAAACAAGATCAAGTATGCATTGCTCGCTTAAGGACAGCAGGAACC
ATCTGCCTTGAGACCTTTAAAGACTTCCCTCAGATGGGTGCTTTCACCTTAAGAGATGAG
GGTAAGACCATTGCAATTGAAAAGTTCTGAAACTGGTTCAGAGAAAGACTAA

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Clone variation with respect to NM_002094.3
 138 c=>n;139 g=>n;140 g=>n;141 c=>n;142 g=>n;143 g=>n;144 c=>n;145 t=>n;146 c=>n;147
 c=>n;148 c=>n;1755 c=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002094 unedited
 GATGTCAGAAATTTGTAACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCGAGTGT
 GGAGTCGGGACTGGAGCTGCTGCCGCGGCGACGCCGGGATCTTTGTGCTGGCTCCCGG
 CCCTTCTGCCCGCCGCTTCCCTCAGTCAGCGTTGCCACTCCTCTCCGGCCGGGCGCC
 CCTGCCTCCATTTCTGCTCTCTGTCCACCACACACGGCCCCCGGATCATGGATCCG
 GGCAGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAGCAGCAGCGGCAGCAGCAGC
 AGCGACTCGGCGCTGACTGCTGGGACCAGGCGGACATGGAAGCCCCCGGCGCGGCCCT
 TGGCGCGGCGGCGCTCCCTGGCGGCGGCGGCGGAGGCCAGCGGAGAACCTCAGCGCG
 GCCTTCAGCCGGCAACTCAACGTCAACGCCAAGCCCTTCGTGCCAACGTCCACGCCGCC
 GAGTTCGTGCCGTCTTCTGCGGGGCCCGGCAGCGCCGCCACCCAGCTGGCGGCGCC
 GCCAATAACCACGGAGCCGGCAGCGGCGGCGGAGGCCGTGCGGCACCTGTGGAATCCTCT
 CAAGAGGAACAGTCATTGTGTGAAGTTCAAATTCAGCTGTTAGCATGGAATTTTCAGAA
 CCTATTGTAGAAAATGGAGAGACAGAAATGTCTCCAGAAGAATCATGGGAGCACAAGAA
 GAAATAAGTGAAGCAGAGCCAGGGGTGGTTTCTTGGGAGATGGAAGCCGCCAGAGGAA
 AGTGCCCATNGAATGATGNNAGAGAAAAGAGGAATCCCCAACCTAAGTCTGTGGTTGCA
 CGCCAGGTGCTCCTAAGAAAGACATGTAATGTANTATCCATTGGGCACGTAGATGCTG
 GCAAGTCAACA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002094 unedited
 GCGCCACGCATTCTAGAGTCGAGTTTTTCTTTTTTTTTTTTCAAATTGAATATTTTATTA
 ACATGGTAGTTGCCCTTTGCCACATGTGCACACACTCGCACACTCAAAATGATCTGCCT
 GGGGAAAAAATACTAAATATGCCTAAGGGGAAAATGAAAAATAAAAAATTCCTGTAGG
 TTTTCATTATTGTAGGAATTATGTCCACATCACTTACAAAGCTATTGCCAAATCTGTCC
 AAGGAAGCAGAGTTTGAAGTGAGGGCTAGGGACAGGAATCTTGGGAAAAATTCACAGTG
 GCATAGCAGAGCTCTCAATATGAAAAAGCTGACATAATGTGGACTTTTGTGTGAATTC
 CTCTTTGCAAAATATGGGGAGAGGTTTATCAATGGGCAGAAAATAAGAGAAGGCGGTGTG
 AAGTAGGCTTCTGCACTCAATTTTCTCACAGTATTGTGACAGGTCATCAAGAAAATGCT
 TAGTCTTTCTCTGGAACCACTTTTCAAACTTTTCAATGCAATGGTCTTACCCTCATCT
 CTTAAGGTGAAACGACCCATCTGAGGGAAGTCTTTAAAGGTCTCAAGGCAGATGGTTCTC
 GCTGTCCTTAAGCGAGCAATGCATACTTGATCTTGTTCACAAAACGGGGTCGGGACTTA
 CTTTTTCTACTGATTTTTTGTCTACCAAGCAGATTAAGGCTGTTATTTCCCACTCCTCA
 ATACAGGTATGAATATGCAGCACCGCATTATAGCCTGGGCAGATGATGGATTTGTGCTCT
 ATATTACTATCTGGCATCAAAAGCGCGCCAGATGACAAAATTATAGGTACACAAGTTTAA
 CCCTGGAAGATCCCCTCTCTCATCTTTAGCCGATTTGAAGTTCACCTGGCCTAGGTAT
 AGCCTTAATATCGGAAAATCAAGACTCCCAGTGGGTTGTTGGATAACACACTGTTGGCT
 TCAAAAAAT

Restriction Sites:

NotI-NotI

ACCN:

NM_002094

Insert Size:

2500 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).

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:	<u>NM_002094.1</u> , <u>NP_002085.1</u>
RefSeq Size:	2587 bp
RefSeq ORF:	1500 bp
Locus ID:	2935
Cytogenetics:	16p13.13
Domains:	GTP_EFTU, GTP_EFTU_D3, GTP_EFTU_D2
Protein Families:	Transmembrane
Gene Summary:	<p>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 (PubMed:2511002). 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 (PubMed:24486019).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The extent of this transcript is supported by transcript alignments.</p>