

Product datasheet for **SC320847**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002094.1
 GAGCTGCTGCCGCGGCGACGCGGGGATCTTTGTGCTAGCTCCCGGCCCTTCTGCCCGG
 CCGCCTTCCCTCAGTCAGCGTTGCCACTCCTCTCCGGCCGGGCGCCCTGCCTCCATTT
 CTCGCTCTGTCCACCACACACGCCCCCGATCATGGATCCGGGCAGTGGCGGGC
 GCGGGCGGCGGCGGGAGCAGCAGCGGCAGCAGCAGCAGCGACTCGGCGCTGACTGCT
 GGGACCAGGCGGACATGGAAGCCCCGGCCGGGCCCTTGGCGGGCGGGGCTCCCTGG
 CGGCGGCGGCGAGGCCAGCGGGAGAACCTCAGCGCGCCTTCAGCCGGCAACTCAACG
 TCAACGCCAAGCCCTTCGTGCCAACGTCCACGCCGCGAGTTCTGTGCCGTCTTCTGC
 GGTGCCCGGCGAGCGCCACCCCCAGTGCGGCGCGCCAATAACCACGGAGCCGGCA
 GCGGGCGGGAGGCCGTGCGGCACCTGTGGAATCCTCTCAAGAGGAACAGTCATTGTGTG
 AAGTTCAAATTCAGCTGTTAGCATGGAACCTTTCAGAACCTATTGAAAATGGAGAGACAG
 AAATGTCTCCAGAAGAATCATGGGAGCACAAAGAAGAAATAAGTGAAGCAGAGCCAGGGG
 GTGTTCCCTGGGAGATGGAAGGCCGCCAGAGGAAAGTGCCCATGAAATGATGGAGGAGG
 AAGAGGAAATCCAAAACCTAAGTCTGTGGTTGCACCGCCAGGTGCTCCTAAGAAAGAGC
 ATGTAATGTAGTATTCATTGGGCACGTAGATGCTGGCAAGTCAACCATTGGAGGACAAA
 TAATGTATTTGACTGGAATGGTTGACAAAAGGACGCTTAAAAAGTATGAAAGAGAAGCTA
 AAGAGAAAAACAGAGAACTTGGTACTTGTCTTGGGCCTTAGACACAAATCAGGAAGAAC
 GAGACAAGGGTAAAACAGTAGAAGTGGTTCGTGCCTATTTTGAACCGAAAAGAAGCATT
 TCACAATTCTAGATGCCCTGGCCACAAGATTTTGTCCCAAATATGATTGGTGGTGCCT
 CTCAAGCTGATTTGGCTGTGCTGGTAATCTCAGCCAGGAAAGGAGAGTTTGAACCTGGAT
 TTGAAAAAGGAGGACAGACAAGAGAATGCAATGTTGGCAAAGCAGCAGGTGTAAC
 ACCTAATTGTGCTAATTAATAAGATGGATGATCCAACAGTAAATTGGAGCAATGAGAGAT
 ATGAAGAATGTAAGGAGAACTAGTGCCATTTTGA AAAAAGTTGGCTTCAATCCCAAAA
 AGGACATTCACCTTATGCCCTGCTCAGGACTTACTGGAGCAAATCTCAAAGAGCAGTCGG
 ATTTCTGTCTTGGTACATTGGATTACCGTTTATTCCATATCTGGATAATTTGCCAACT
 TCAATAGATCAGTTGATGGACCAATCAGGCTGCCAATTGTGGATAAGTACAAGGATATGG
 GCACTGTGGTCTGGGAAAGCTGGAATCAGGATCTATTTGTAAGGCCAGCAGCTTGTGA
 TGATGCCAAACAAGCACAACTGGAAGTTCTTGAATACTTTCCGATGATGTAGAGACTG
 ATACCGTAGCCCCAGGTGAAAACCTCAAATCAGACTGAAAGGAATTGAAGAAGAGGAGA
 TTCTTCCAGGGTTATACTTTGTGATCCTAATAATCTTTGTCATTCTGGACGCACATTTG
 ATGCCCAGATAGTGATTATAGAGCACAAATCCATCATCTGCCCAGGCTATAATGCCGTGC
 TGCATATTCATACCTGTATTGAGGAGGTGGAATAACAGCCTTAATCTGCTTGGTAGACA
 AAAAATCAGGAGAAAAAGTAAGACCCGACCCGTTTTGTCAAACAAGATCAAGTATGCA
 TTGCTCGCTTAAGGACAGCAGGAACCATCTGCCTTGAGACCTTTAAAGACTTCCCTCAGA
 TGGGTCGTTTACCTTAAGAGATGAGGGTAAGACCATTGCAATTGGAAAAGTTCTGAAAC
 TGGTCCAGAGAAAGACTAAGCATTCTTCTGATGACCCTGCACAATACTGTGAGGAAAAAT
 TGACTGCAAGCCTACTTACACCCGCTTCTCTATTTTCTGCCATTGATAAACCTCT
 CCCCATATTTGCAAAGAGGAAATTCACAGCAAAGTCCACATTATGTCAGCTTTCTCAT
 ATTGAGAGCTCTGCTATGCCACTGTTGAATTTTCCCAAGATTCTGTCCCTAGCCCTCA
 CTTCAAACCTCTGCTTCTTGGACAGATTTGGCAATAGCTTTGTAAGTGATGTGGACATAA
 TTGCTACAATAATGAAAACCTACAGGAATTTTTTTATTTTTCATTTCCCTTAGGCAT
 ATTTAGTATTTTCCCCAGGCAGATCATTCTGAGTGTGCGAGTGTGTGTCACATGTTA
 CAAAGGCAACTACCATGTTAATAAAATATTCAATTTGAAAAAAAAAAAAAAAAAAAAAA
 AAA

Restriction Sites: Please inquire

ACCN: NM_002094

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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>