

## Product datasheet for **SC323107**

### GSPT1 (NM\_001130007) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GSPT1 (NM_001130007) Human Untagged Clone
Tag:	Tag Free
Symbol:	GSPT1
Synonyms:	551G9.2; eRF3a; ETF3A; GST1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001130007, the custom clone sequence may differ by one or more nucleotides ATGGAAC TTT CAGA ACCT ATT GTAG AAA ATGGAGAGACGAAATGTCTCCAGAAGAATCA TGGGAGCACAAGAAGAAATAAGTGAAGCAGAGCCAGGGGTGGTTCCTTGGGAGATGGA AGGCCGCCAGAGGAAAGTGCCCATGAAATGATGGAGGAGGAAGAGGAAATCCCAAACCT AAGTCTGTGGTTGCACCGCCAGGTGCTCCTAAGAAAGAGCATGTAATGTAGTATTCATT GGGCACGTAGATGCTGGCAAGTCAACCATTGGAGGACAAATAATGTATTTGACTGGAATG GTTGACAAAAGGACGCTTGAAAAGTATGAAAGAGAAGCTAAAGAGAAAAACAGAGAACT TGGTACTTGTCTTGGGCCTTAGACACAAATCAGGAAGAACGAGACAAGGGTAAAAACGTA GAAGTGGGTCTGCCTATTTTGAACCGAAAAGAAGCATTTCACAATTCTAGATGCCCT GGCCACAAGAGTTTTGTCCCAAATATGATTGGTGGTGCCTCTCAAGCTGATTTGGCTGTG CTGGTAATCTCAGCCAGGAAAGGAGAGTTTGAACTGGATTTGAAAAAGGAGGACAGACA AGAGAACATGCAATGTTGGCAAAGACAGCAGGTGTA AACACCTAATTGTGCTAATTAAT AAGATGGATGATCCAACAGTAAATTGGAGCAATGAGAGATATGAAGAATGTAAGGAGAAA CTAGTGCCATTTTGA AAAAAGTTGGCTTCAATCCAAAAAGGACATTCACTTTATGCC TGCTCAGGACTTACTGGAGCAAATCTCAAAGAGCAGTCGGATTTCTGCTTGGTACATT GGATTACCGTTTATCCATATCTGGATAATTTGCCGAACCTCAATAGATCAGTTGATGGA CCAATCAGGCTGCCAATTGTGGATAAGTACAAGGATATGGGCACTGTGGTCTGGGAAAG CTGGAATCAGGATCTATTTGTAAGGCCAGCAGCTTGTGATGATGCCAAACAAGCACAAC GTGGAAGTTCTTGAATACTTTCCGATGATGTAGAGACTGATACCGTAGCCCCAGGTGAA AACCTCAAAATCAGACTGAAAGGAATTGAAGAAGAGGAGATTCTCCAGGTTTTACTT TGTGATCCTAATAATCTTTGTCATTCTGGACGCACATTTGATGCCAGATAGTGATTATA GAGCACAATCCATCATCTGCCAGGCTATAATGCGGTGCTGCATATTCATACCTGTATT GAGGAGGTGAAAATAACAGCCTTAATCTGCTTGGTAGACAAAAAATCAGGAGAAAAAAGT AAGACCCGACCCGTTTTGTCAAACAAGATCAAGTATGCATTGCTCGCTTAAGGACAGCA GGAACCATCTGCCTTGAGACCTTTAAAGACTTCCCTCAGATGGGTCTTACCTTAAGA GATGAGGGTAAGACCATTGCAATTGAAAAGTTCTGAACTGGTTCAGAGAAAAGAC
Restriction Sites:	Please inquire
ACCN:	NM_001130007



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001130007.1</a></u> , <u><a href="#">NP_001123479.1</a></u>
<b>RefSeq Size:</b>	7190 bp
<b>RefSeq ORF:</b>	1500 bp
<b>Locus ID:</b>	2935
<b>UniProt ID:</b>	<u><a href="#">P15170</a></u>
<b>Cytogenetics:</b>	16p13.13
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<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 (3) differs in the 5' UTR and lacks a portion of the 5' coding region, compared to variant 1. The resulting isoform (3) is shorter at the N-terminal, compared to 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>