

## Product datasheet for **RG225858**

### GSPT1 (NM\_001130007) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GSPT1 (NM_001130007) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GSPT1
Synonyms:	551G9.2; eRF3a; ETF3A; GST1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG225858 representing NM\_001130007  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAC**TTT**CAGAACCTATTGTAGAAAATGGAGAGACAGAAATGTCTCCAGAAGAAATCATGGGAGCACA  
 AAGAAGAAATAAGTGAAGCAGAGCCAGGGGGTGGTTCTTGGGAGATGGAAGGCCCCAGAGGAAAGTGC  
 CCATGAAATGATGGAGGAGGAAGAGGAAATCCCAAAACCTAAGTCTGTGGTTGCACCGCCAGGTGTCTCT  
 AAGAAAGAGCATGTAATGTAGTATT**CATTGGGCACGTAGATGCTGGCAAGTCAACCATTGGAGGACAAA**  
 TAATGTATTTGACTGGAATGGTTGACAAAAGGACGCTT**GAAAAGTATGAAAGAGAAGCTAAAGAGAAAA**  
 CAGAGAAACTTGGTACTTGTCTTGGCCTTAGACACAAATCAGGAAGAACGAGACAAGGGTAAAACAGTA  
 GAAGTGGGTCGTGCCTATTTT**GAAACCGAAAAGAAGCATTTCACAATTCTAGATGCCCTGGCCACAAGA**  
 GTTTTGTCCCAAATATGATTGGTGGTGCCTCTCAAGCTGATTTGGCTGTGCTGGTAA**CTCAGCCAGGAA**  
 AGGAGAGTTT**GAAACTGGATTTGAAAAAGGAGGACAGACAAGAGAACATGCAATGTTGGCAAAGACAGCA**  
 GGTGTA**AAACACCTAATTGTGCTAATTAATAAGATGGATGATCCAACAGTAAATTGGAGCAATGAGAGAT**  
 ATGAAGAATGTAAGGAGAACTAGTGCCATTTT**GAAAAAAGTTGGCTTCAATCCAAAAAGGACATTCA**  
 CTTTATGCCCTGCTCAGGACTTACTGGAGCAAATCTCAAAGAGCAGTCCGATTTCTGTCTTGGTACATT  
 GGATTACCGTTTATTCCATATCTGGATAATTTGCCGA**ACTTCAATAGATCAGTTGATGGACCAATCAGGC**  
 TGCCAATTGTGGATAAGTACAAGGATATGGGCACTGTGGTCTGGGAAAGCTGGAATCAGGATCTATTTG  
 TAAAGGCCAGCAGCTTGTGATGATGCCAAACAAGCACACAGTGGAAAGTCTTGAATACTTTCCGATGAT  
 GTAGAGACTGATACCGTAGCCCCAGGTGAAAACCTCAAATCAGACTGAAAGGAATTGAAGAAGAGGAGA  
 TTCTTCCAGGGTTTATACTTTGTGATCCTAATAATCTTTGT**CATTCTGGACGCACATTTGATGCCGAT**  
 AGTGATTATAGAGCACAAATCCATCATCTGCCAGGCTATAATGCGGTGCTGCATATTCATACCTGTATT  
 GAGGAGGTGAAAATAACGCCTTAACTGCTTGGTAGACAAAAAATCAGGAGAAAAAAGTAAAGCCCGAC  
 CCCGTTTTGTCAAACAAGATCAAGTATGCATTGCTCGCTTAAGGACAGCAGGAACCATCTGCCTTGAGAC  
 CTTTAAAGACTTCCCTCAGATGGTTCGTTT**CACCTAAGAGATGAGGGTAAGACCATTGCAATTGAAAA**  
 GTTCTGAAACTGGTTCAGAGAAAGAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG225858 representing NM\_001130007  
 Red=Cloning site Green=Tags(s)

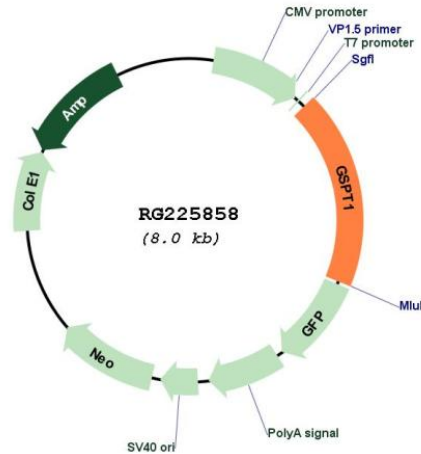
MELSEPIVENGETEMSPESWEHKEEISEAEPGGGSLGDGRPPPEESAHEMMEEEEEIPKPKSVVAPPGAP  
 KKEHVNVVFIGHVDAGKSTIGGQIMYLTGMVDKRTLEKYEREAKEKNRETWYLSWALDTNQEERDKGKT  
 EVGRAYFETEKHFITILDAPGHKSFVPMIGGASQADLAVLVISARKGEFETGFEKGGQTRHAMLAKTA  
 GVKHLIVL INKMDDPTVNSNEREYEECKELVPFLKKGVPNPKDIHFMPCSLTGANLKEQSDFCPWYI  
 GLPFIPYLDNLPNFRSVDGP IRLPIVDKYKDMGTVVLGKLESGSICKGQQLVMMPNKHNVVGLIGLSD  
 VETDTPVAPGENLKIRLKGIEEEEILPGFILCDPNNLCHSGRTFDAQIVIEHKSIICPGYNAVLIHTCI  
 EEVEITALICLVDKKSGEKSKTRPRFVKQDQVCIARLRTAGTICLETFKDFPQMGRFTLRDEGKTAIGK  
 VLKLVPEKD

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul



**Plasmid Map:**


**ACCN:** NM\_001130007

**ORF Size:** 1497 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.

**RefSeq:** [NM\\_001130007.2](#)

**RefSeq Size:** 7190 bp

**RefSeq ORF:** 1500 bp

**Locus ID:** 2935

**UniProt ID:** [P15170](#)

**Cytogenetics:** 16p13.13

**Protein Families:** Transmembrane

**Gene Summary:** 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]