

## Product datasheet for **RG211850**

### **SIL1 (NM\_022464) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SIL1 (NM_022464) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SIL1
Synonyms:	BAP; MSS; ULG5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG211850 representing NM\_022464  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCCCCAGAGCCTGCCTTCATCTAGGATGGCTCCTCTGGGCATGCTGCTTGGGCTGCTGATGGCCG  
 CCTGCTTCACCTTCTGCCTCAGTCATCAGAACCTGAAGGAGTTTGCCTGACCAACCCAGAGAAGAGCAG  
 CACCAAAGAAACGGAGAGAAAAGAAACCAAGCCGAGGAGGAGCTGGATGCCGAAGTCTGGAGGTGTTCC  
 CACCCGACGCATGAGTGGCAGGCCCTTCAGCCAGGGCAGGCTGTCCCTGCAGGATCCCACGTACGGCTGA  
 ATCTTCAGACTGGGAAAGAGAGGCAAACTCCAATATGAGGACAAGTCCGAAATAATTTGAAAGGCAA  
 AAGGCTGGATATCAACACCAACACTACACATCTCAGGATCTCAAGAGTGCCTGGCAAAATTCAAGGAG  
 GGGGCAGAGATGGAGAGTTCAAAGGAAGACAAGGCAAGGCAGGCTGAGGTAAGCGGCTCTCCGCCCA  
 TTGAGGAACTGAAGAAAGACTTTGATGAGCTGAATGTTGTCATTGAGACTGACATGCAGATCATGGTACG  
 GCTGATCAACAAGTTCAATAGTTCAGCTCCAGTTTGAAGAGAAGATTGCTGCGCTCTTTGATCTTGAA  
 TATTATGTCCATCAGATGGACAATGCGCAGGACCTGCTTTCCTTTGGTGGTCTTCAAGTGGTGATCAATG  
 GGCTGAACAGCACAGAGCCCCTCGTGAAGGAGTATGCTGCGTGTGCTGGGCGCTGCCTTTTCCAGCAA  
 CCCCAAGTCCAGGTGGAGGCCATCGAAGGGGGAGCCCTGCAGAAGTGCCTGGTCACTCTGGCCACGGAG  
 CAGCCGCTCACTGCAAAGAAGAAGTCTGTTGCACTGTGCTCCCTGCTGCGCCACTTCCCCTATGCC  
 AGCGGCAGTTCCTGAAGTCTGGGGGGCTGCAGGTCCTGAGGACCTGGTGCAGGAGAAGGGCACGGAGGT  
 GCTCGCGTGCAGTGGTCACTGCTCTACGACCTGGTACGGAGAAGATGTTCCGGCAGGAGGAGGCT  
 GAGTGCAGCCAGGAGATGCCCCAGAGAAGCTGCAGCAGTATCGCCAGGTACACCTCTGCCAGGCTGT  
 GGAACAGGGCTGGTGCAGATCACGGCCACCTCCTGGCGCTGCCCGAGCATGATGCCCGTGAGAAGGT  
 GCTGCAGACACTGGGCGTCTCCTGACCACCTGCCGGGACCGCTACCGTCAAGACCCCACTCGGCAGG  
 ACACTGGCCAGCCTGCAGGCTGAGTACCAGGTGCTGGCCAGCCTGGAGCTGCAGGATGGTGAAGACGAGG  
 GCTACTCCAGGAGCTGCTGGGCTCTGTCAACAGCTTGCTGAAGGAGCTGAGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG211850 representing NM\_022464  
 Red=Cloning site Green=Tags(s)

MAPQSLPSSRMAPLGMLLGLLMAACFTFCLSHQNLKEFALTNPEKSSTKETERKETKAEELDAEVLEVF  
 HPTHEWQALQPGQAVPAGSHVRLNLQTEREAKLQYEDKFRNNLKGKRLDINTNTYTSQDLKSALAKFKE  
 GAEMESSKEDKARQAEVKRLFRPIEELKKDFDELNVVIEITDMQIMVRLINKFNSSSSSLEEKIAALFDLE  
 YYVHQMDNAQDLLSFGGLQVVINGLNSTEPLVKEYAAFVLGAFFSSNPKVQVEAIEGGALQKLLVILATE  
 QPLTAKKKVLFALCSLLRHFYARQFLKLGGLQVLRTLVQEKGTVEVLAVRVVTLTYDLVTEKMFEEEE  
 ELTQEMSPEKLQYRQVHLLPGLWEQGWCEITAHLLALPEHDAREKVLQTLGVLLTTCRDRYRQDPQLGR  
 TLASLQAEYQVLASLELQDGEDEGYFQELLGSVNSLLKELR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_022464

**ORF Size:** 1383 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\\_022464.3](#), [NP\\_071909.1](#)

**RefSeq Size:** 1815 bp

**RefSeq ORF:** 1386 bp

**Locus ID:** 64374

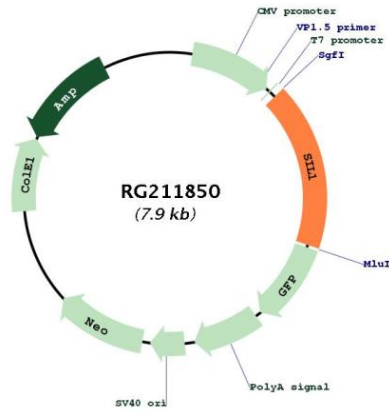
**UniProt ID:** [Q9H173](#)

**Cytogenetics:** 5q31.2

**Protein Families:** Protease, Secreted Protein, Transmembrane

**Gene Summary:** This gene encodes a resident endoplasmic reticulum (ER), N-linked glycoprotein with an N-terminal ER targeting sequence, 2 putative N-glycosylation sites, and a C-terminal ER retention signal. This protein functions as a nucleotide exchange factor for another unfolded protein response protein. Mutations in this gene have been associated with Marinesco-Sjogren syndrome. Alternate transcriptional splice variants have been characterized. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG211850