

Product datasheet for **SC112483**

SIL1 (NM_022464) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIL1 (NM_022464) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIL1
Synonyms:	BAP; MSS; ULG5
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 SC112483 sequence for NM_022464 edited (data generated by NextGen Sequencing)

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ATGGCTCCCCAGAGCCTGCCTTCATCTAGGATGGCTCCTCTGGGCATGCTGCTTGGGCTG
CTGATGGCCGCCTGCTTACCTTCTGCCTCAGTCATCAGAACCTGAAGGAGTTTGCCTG
ACCAACCCAGAGAAGAGCAGCACCAAAGAAACGGAGAGAAAAGAAACCAAAGCCGAGGAG
GAGCTGGATGCTGAAGTCTGGAGGTGTCCACCCGACGCATGAGTGGCAGGCCCTCAG
CCAGGGCAGGCTGTCCCTGCAGGATCCCACGTACGGCTGAATCTTCAGACTGGGAAAGA
GAGGCAAAACTCCAATATGAGGACAAGTCCGAAATAATTTGAAAGGCAAAAGGCTGGAT
ATCAACACCAACACCTACACATCTCAGGATCTCAAGAGTGCACTGGCAAAATTCAAGGAG
GGGGCAGAGATGGAGAGTTCAAAGGAAGACAAGGCAAGGCAGGCTGAGGTAAAGCGGCTC
TTCCGCCCCATTGAGGAACTGAAGAAAGACTTTGATGAGCTGAATGTTGTCATTGAGACT
GACATGCAGATCATGGTACGGCTGATCAACAAGTTCAATAGTTCCAGCTCCAGTTTGAA
GAGAAGATTGCTGCGCTCTTTGATCTTGAATATTATGTCCATCAGATGGACAATGCGCAG
GACCTGCTTTCCTTTGGTGGTCTTCAAGTGGTATCAATGGGCTGAACAGCACAGAGCCC
CTCGTGAAGGAGTATGCTGCGTTTGTGCTGGGGCTGCCTTTTCCAGCAACCCCAAGGTC
CAGGTGGAGGCCATCGAAGGGGGAGCCCTGCAGAAGCTGCTGGTATCCTGGCCACGGAG
CAGCCGCTCACTGCAAAGAAGAAGGTCCTGTTGCACTGTGCTCCCTGCTGCGCCACTTC
CCCTATGCCCAGCGGCAGTTCTGAAGCTCGGGGGGCTGCAGGTCCTGAGGACCTGGTG
CAGGAGAAGGGCAGCGAGGTGCTCGCCGTGCGCGTGGTACACTGCTCTACGACCTGGTC
ACGGAGAAGATGTTCCGCCGAGGAGGAGGCTGAGCTGACCCAGGAGATGTCCCAGAGAAG
CTGCAGCAGTATCGCCAGGTACACCTCCTGCCAGGCTGTGGAAACAGGGCTGGTGGCAG
ATCACGGCCACCTCCTGGCGCTGCCGAGCATGATGCCCGTGAAGAGGTGCTGCAGACA
CTGGGCGTCTCCTGACCACCTGCCGGGACCGCTACCGTCAGGACCCCAAGCTCGGCAGG
ACACTGGCCAGCCTGCAGGCTGAGTACCAGGTGCTGGCCAGCCTGGAGCTGCAGGATGGT
GAGGACGAGGGCTACTTCCAGGAGCTGCTGGGCTCTGTCAACAGCTTGTGAAGGAGCTG
AGATGA
    
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Clone variation with respect to NM_022464.4
 153 a=>g;192 c=>t

5' Read Nucleotide Sequence: >OriGene 5' read for NM_022464 unedited

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GCCCGCGTTTTGCGCAGGGGGATCTGGTCGCCGCCGCGGCCCGCTGGAAGTGTGGGAGTT
GTGTCCGCCACTCGGCCTGCCGGAGGCCGAAGTCCCTGACTATGGCCTCCCCAGAGCCT
GCCTTCATCTAGGACGGGCTCCTCTGGGCATGCTGCTTGGGCTGCTGATGGCCGCTGCT
TCACCTTCTGCCTCATTATCAGAACCTGAAGGAGTTTGCCTGACCAACCCAGAAAAAG
CAGCACAAAGAAACCGAGAAGAAAAAAACCAAAGCCGAGGAAGAGCTGGATGCTGAAG
TCCTGGAGGTGTTCCACCCGACGCATGAGTGGCAGGCCCTTCAGCCAGGGCAGGCTGTCC
CTTGCAGATCCCCTTACCCTGAAATCTTCAGACTGGGGAAGAGAGGCAAAACTCCAAT
ATGAGGACCAGTTCGAAATAATTTGAAAGGCAAAAGGCTGGATATCAACACCAACACCT
ACACATCTCAGGATCTCAAGAGTGCACTGGCAAAATTCAAGGAGGGGGCAGAGATGGAGA
GTTCAAAGGAAGACAAGGCAAGGCAGGCTGAGGTAAAGCGGCTCTCCGCCCCATTGAGG
AACTGAAGAAAGACTTTGATGAGCTGAATGTTGTCATTGAGACTGACATGCAGTTTCATGG
TACGGCTGATCAACAAGTTCAATAGTTCCAGCTCCAGTTTGAAGAGAAATTGCTGCGCT
CTTTGATCTTGAATATTATGTCCATCAGATGGACCAATGCGCAGACCTGCTTTCCTTNG
NNTGTCTCAGTGGGTGATCAAATGGGCTGACAGCACAGAGCCCTCGTGAANNGATATGC
TGCGTTTGTGCTGGGCGCTGCCTTTTNCAGCACCCCNAGGTCCAT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_022464 unedited GACCGCGAGCCGCAATCTAGAGTCGAGNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCC TTCAGGTTTCCATTTAATGGCCAAGCCAGCACTGCCAAGATGTCCTCCTGCCTGAAAAGC CCACCCACGCTGGCACCCTCAACCTACTAACGGCATCCCAGTCCAGTCCCTGGTGGGGG GCCTCATCTCAACTCCTCAGCAAGCTGTTGACAGAGCCCAACAGCTCCTGGAAGTAGCC CTCGTCTCACCATCCTGCAGCTCCAGGCTGGCCAGCACCTGGTACTCAACCTGCAGGCT GGCCAGTGTCTGCCGAGCTGGGGTCTGACGGTAGCGGTCCCGGCAGGTGGTCAGGAG GACGCCAGTGTCTGCAGCACCTTCTCACGGGCATCATGCTCGGGCAGGCCAGGAGGTG GGCCGTGATCTCGCACCAACCCTGTTCCACAGGCCTGGCAGGAGGTGTACCTGGCGATA CTGCTGCAGTCTCTGGGGACATCTCCTGGGTGAGTCAACCTCCTCCTCGGCGAACAT CTTCTCCGTGACCAGGTCGTAGAGCAGTGTGACCACGCGCACGGNGAGCACCTTCGTGCC CTTCTCCTGCACCAGGTCCTCAGGACCTGCAGCCCCCGAGTTCAGGAACTGCCGCTG GGCATAAGGGAAGTGGCGCACCAGGGAGCACAGTCAAACAGGACCTTCTTTTGCAGT GAGCGGCTGCTCCGCTGCCAGGATGACCACCACCTCCTGCAGGGTCCCCCTTCGATGGG CTNCACCTGGACTTTGGGTTGCTGGAAAAGCAGNGCCANCACAAACGCAGATACTCCT TACGAGGGCTCTGTGCTGTTACGCCATTGATACCACCTGTAGACACCAAGGAAAGCAG GTCTGCGCCATGCCATCTGATGAACTCATATTAGATCAAAGAGCCACNATCTTCTCC TTCAAATGGAGCCTGAACATTGCACCTGTGTCAACCGAACATGATCGGT
Restriction Sites:	NotI-NotI
ACCN:	NM_022464
Insert Size:	1650 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_022464.3</u> , <u>NP_071909.1</u>
RefSeq Size:	1815 bp
RefSeq ORF:	1386 bp
Locus ID:	64374
UniProt ID:	<u>Q9H173</u>
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]

Transcript Variant: This variant (2) lacks an exon in the 5'UTR compared to variant 1. Variants 1 and 2 encode the same protein.