

**Supplemental Table S1** Synthetic oligonucleotides used in this study.

Primer overhangs are underlined and restriction sites are italicized. Start codons are in green and stop codons in red. A brief description of what each primer was used for is provided.

<b>Cloning of full-length SICPT cDNAs</b>		
	<i>Primer sequence (5'-3')</i>	<i>Description</i>
CPT2-5'	<u>ATG</u> AACTCTTCAATAGTGTCTCAACAC	5' primer for SICPT2
CPT2-3'	TCAATATGTGTGTCCACCAAAACG	3' primer for SICPT2
CPT3-5'	<u>ATG</u> GGAAGGTGTGAACGGTAAAAAAGTG	5' primer for SICPT3
CPT3-3'	TCAATGACTGCTTCTTTTTTTCCTTCAAATAC	3' primer for SICPT3
CPT4-5'	<u>ATG</u> GCGTTCTCACTCCAGCTCC	5' primer for SICPT4
CPT4-3'	CTAGGAGCTCTGTCTACCGTAGCGTC	3' primer for SICPT4
CPT5-5'	<u>ATG</u> GCGTTTTTCATTTTCAGCTCCAACAAGTC	5' primer for SICPT5
CPT5-3'	CTAGGAACTCTGTCCGCCATAGC	3' primer for SICPT5
CPT6-5'	<u>ATG</u> AACTCTTTGTTTGTAGGGAGGCCA	5' primer for SICPT6
CPT6-3'	TCAATATGTGTGTCCACCAAAACGTCTATGTC	3' primer for SICPT6
CPT7-5'	<u>ATG</u> CTATCCCTGGGATTCTCACTTC	5' primer for SICPT7
CPT7-3'	TCAGATTTTTTTTCCACCGTAACG	3' primer for SICPT7
<b>Real-time PCR Analysis</b>		
CPT1RT-5'	GGTTCCTCAATGTTGGAAATTATCATCTCCATC	5' primer for SICPT1 QPCR
CPT1RT-3'	GCAGACACTGTCAGAGGCGAATTTG	3' primer for SICPT1 QPCR
CPT2RT-5'	GGATCTTCAATGCTGGAAATCATCATCACC	5' primer for SICPT2 QPCR
CPT2RT-3'	AAGCTCTTCATGAAGCTCGAGATCATC	3' primer for SICPT2 QPCR
CPT3RT-5'	GGACAAGAATGAGCACCGGATTGG	5' primer for SICPT3 QPCR
CPT3RT-3'	CAATCTCAGGCCATAGTGCAGCAGG	3' primer for SICPT3 QPCR
CPT4RT-5'	ACCGGCGTCGCCGCCATG	5' primer for SICPT4 QPCR
CPT4RT-3'	CACAGCTCAATAATCTTCTAACAGCTCG	3' primer for SICPT4 QPCR
CPT5RT-5'	TCCGTCTAAAGCGGAAGTTGATCTTTTG	5' primer for SICPT5 QPCR
CPT5RT-3'	GCAACAAGGATATGAAGTCGGGAGTTTG	3' primer for SICPT5 QPCR
CPT6RT-5'	GGAATCGTTCCGAGGAGGAGTTG	5' primer for SICPT6 QPCR
CPT6RT-3'	TGTTGCTTGTAACATGTCATACTGTCTCC	3' primer for SICPT6 QPCR
CPT7RT-5'	TCACCGCGCTGGCGGAGAG	5' primer for SICPT7 QPCR
CPT7RT-3'	TCGCCTACCATCCCTTGCCAC	3' primer for SICPT7 QPCR
EFRT-5'	GCTGCTGTAACAAGATGGATGCTACC	5' primer for <i>Elongation factor 1a</i>
EFRT-3'	GTCCCTTGACCAGTCGAGGTTGG	3' primer for <i>Elongation factor 1a</i>
<b>Subcellular localization</b>		
	<i>Primer sequence (5'-3')</i>	<i>Description</i>
CPT1GFP-5'	<u>TTCACCTGCAG</u> ATGAGTTCTTTGGTTCTTCAATGTTG	5' primer for SICPT1
CPT1GFP-3'	TTCACGGATCCAACCTTCATATACTTCTAAACCCTTATCCTTTGC	3' primer for SICPT1
CPT2GFP-5'	<u>TTCACCTGCAG</u> ATGAACTCTTCAATAGTGTCTCAACAC	5' primer for SICPT2
CPT2GFP-3'	TTCACGGATCCAACCTTCATATACTTCTAAACCCTTAGCCTTTG	3' primer for SICPT2
CPT3GFP-5'	<u>TTCACGAGCTC</u> ATGGAAGGTGTGAACGGTAAAAAAG	5' primer for SICPT3
CPT3GFP-3'	TTCACGGATCCATGACTGCTTCTTTTTTTCCTTCAAATAC	3' primer for SICPT3
CPT4GFP-5'	<u>TTCACCTCGAG</u> ATGGCGTTCTCACTCCAGCTCCAG	5' primer for SICPT4

CPT4GFP-3'	<u>TTCACGGATCC</u> ACATAATTCCCAATTTCCACACAGC	3' primer for <i>SICPT4</i>
CPT5GFP-5'	<u>TTCACGAGCTC</u> ATGGCGTTTTTCATTTCCAGCTCCAAC	5' primer for <i>SICPT5</i>
CPT5GFP-3'	<u>TTCACGGATCC</u> AGGAACTCTGTCCGCCATAGCG	3' primer for <i>SICPT5</i>
CPT6GFP-5'	<u>TTCACCTCGAG</u> ATGAACTCTTTGTTTGTAGGGAGG	5' primer for <i>SICPT6</i>
CPT6GFP-3'	<u>TTCACGGATCC</u> AATATGTGTGTCCACCAAAACGTCTATG	3' primer for <i>SICPT6</i>
CPT7GFP-5'	<u>TTCACGAGCTC</u> ATGCTATCCCTGGGATTCTCACTTC	5' primer for <i>SICPT7</i>
CPT7GFP-3'	<u>TTCACGGATCC</u> AGACTCCCCACTGGCTACA AAGG	3' primer for <i>SICPT7</i>
<b>Recombinant protein expression</b>		
<i>Primer name</i>	<i>Primer sequence (5'-3')</i>	<i>Description</i>
CPT1-5'	<u>ATG</u> TCTGCTCGTGGACTCAACAAGAT	5' primer for <i>SICPT1</i>
CPT1-3'	ATATGTGTGTCCACCAAAACG	3' primer for <i>SICPT1</i>
CPT2-5'	<u>ATG</u> TCTGATCGTGGACTCAGCAAG	5' primer for <i>SICPT2</i>
CPT2-3'	ATATGTGTGTCCACCAAAACG	3' primer for <i>SICPT2</i>
CPT3-5'	<u>ATG</u> GAAAGGTGTGAACGGTAAAAAAGTG	5' primer for <i>SICPT3</i>
CPT3-3'	TGACTGCTTCTTTTTTTCCTTCAAATAC	3' primer for <i>SICPT3</i>
CPT4-5'	<u>ATG</u> GCCTTTGCTCAAATGCCGCCGTCAGC	5' primer for <i>SICPT4</i>
CPT4-3'	GGAGCTCTGTCTACCGTAGCGTCTCTGC	3' primer for <i>SICPT4</i>
CPT5-5'	<u>ATG</u> TCTGCGCAAAACAACGCCACCAGC	5' primer for <i>SICPT5</i>
CPT5-3'	GGA ACTCTGTCCGCCATAGCGCCTC	3' primer for <i>SICPT5</i>
CPT6-5'	<u>TTCACCCATGGG</u> CTCATCAATATGTGGTGGTCATTTCTTCAAGG	5' primer for <i>SICPT6</i>
CPT6-3'	<u>TTCACGCGGCCG</u> CATATGTGTGTCCACCAAAACGTCTATGTC	3' primer for <i>SICPT6</i>
CPT7-5'	<u>ATG</u> CTATCCCTGGGATTCTCACTTC	5' primer for <i>SICPT7</i>
CPT7-3'	GATTTTTTTTCCACCGTAACG	3' primer for <i>SICPT7</i>
<b>Constructs for RNAi, Yeast expression, and the MKS1 promoter</b>		
<i>Primer name</i>	<i>Primer sequence (5'-3')</i>	<i>Description</i>
iNDPS1-1-5'	<u>CTCGAGTCTAGACA</u> ATGTTGGAAATT	To create RNAi hairpin targeting <i>NDPS1</i>
iNDPS1-1-3'	<u>GAATTCGGATCC</u> CTTCATCAAGATCA	To create RNAi hairpin targeting <i>NDPS1</i>
rerCPT3F-5'	<u>TTCACCCCGGGATGGAAGGTGTGAACGGTAAAAAAGTGG</u>	To transfer <i>SICPT3</i> into pYEP352 for expression in yeast
rerCPT3R-3'	<u>TTCACAAGCTTTCATGACTGCTTCTTTTTTTCCTTCAAATAC</u>	To transfer <i>SICPT3</i> into pYEP352 for expression in yeast
MKS1-5'	<u>GAGCTCGCGGCCGCGAAGATTGTCGTTCATATCTTATCCA</u>	To transfer the MKS1 promoter into pRNA69
MKS1-3'	<u>CTCGAGT</u> TTTTGAACAACCTACCACAAAGTTTGA	To transfer the MKS1 promoter into pRNA69