

## Product datasheet for SC111028

### SURF1 (NM\_003172) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SURF1 (NM_003172) Human Untagged Clone
Tag:	Tag Free
Symbol:	SURF1
Synonyms:	CMT4K; MC4DN1; SHY1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111028 sequence for NM_003172 edited (data generated by NextGen Sequencing)

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ATGGCGGCGGTGGCTGCGTTGCAGCTGGGGCTGCGGGCGCGGGGCTGGGACGGGCCCG  
GCCAGCGCCGCTGGAGGAGCGTCTCAGGGTCTCCCCGCGCCAGGGGTGCCTGGAGG  
CCAAGCAGATGTGGCAGTTCTGCAGCAGAAGCATCTGCCACAAAAGCGGAAGATGACTCC  
TTTCTTCAGTGGGTCTGCTCCTCATCCCTGTGACTGCCTTTGGCTTGGGGACATGGCAG  
GTCCAGCGTCGGAAGTGAAGCTGAACCTGATTGCAGAGTTGGAGTCCAGAGTTCTGGCT  
GAGCCTGTCCCTCTGCCAGCCGACCCAATGGAACCTGAAAATCTGGAGTATAGGCCAGTG  
AAGGTGAGGGGTGCTTTGACCATTCAGGAGCTGTATATGATGCCCGGACCATGGTG  
GACCCTGTCCGGAGGCCGGGAGGGCGCCTCATCTCCTCCTCAACTCAGAGTGGGGCC  
TATGTGGTCACTCCCTTCCACTGCACCGACCTGGGAGTACCATCCTGGTAAATAGAGGG  
TTGCTTCCAGGAAGAAAGTGAATCCTGAAACCCGGCAGAAAGGCCAGATTGAGGGAGAA  
GTGGACCTCATTGGGATGGTGAAGCTGACAGAAACAGGACGCTTTTGTCCCTGAGAAC  
AATCCAGAAAGGAACCACTGGCATTATCGAGACCTGGAAGCTATGGCCAGAATCACAGGC  
GCAGAGCCCATCTTATTGATGCCAACTCCAGAGCACAGTCCCTGGAGGACCCATTGGA  
GGGCAAACAGAGTTACTCTGAGGAACGAGCATCTGCAGTACATCGTGACCTGGTATGGA  
CTCTCTGCAGCTACATCCTACCTGTGGTTAAGAAATTCCTACGTGGGACACCTGGTGTG  
TGA
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Clone variation with respect to NM\_003172.2



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_003172 unedited  GGTTACCAATTTGTAATCCGCACTCACTATAGGGNCCGGCCGCAATTCGGCACGAGG  GAAGCGCCCGCGGGCCGGGTGCGATGGCGGCGGTGGCTGCGTTGCAGCTGGGGCTGCGG  GCGGCGGGGCTGGGACGGGCCCCGGCCAGCGCCGCTGGAGGAGCGTCTCAGGGTCTCC  CCGCGCCAGGGGTGGCTGGAGGCCAAGCAGATGTGGTAGTTCTGCAGCAGAAGCATCT  GCCACAAAAGCGGAAGATGACTCCTTTCTCAGTGGGTCTGCTCCTCATCCCTGTGACT  GCCTTTGGCTTGGGACATGGCAGGTCCAGCGTCGGAAGTGGAAGCTGAACCTGATTGCA  GAGTTGGAGTCCAGAGTTCTGGCTGAGCCTGTCCCTCTGCCAGCCGACCAATGGAAGT  AAAAATCTGGAGTATAGGCCAGTGAAGGTGAGGGGTGCTTTGACCATTCCAAGGAGCTG  TATATGATGCCCCGGACCATGGTGGACCCTGTCCCGGAGGCCCGGGAGGGCGGCCTCAT  CTCCTCTCAACTCAGAGTGGGGCTATGTGGTCACTCCCTTCCACTGCACCGACCTGCG  AGTCACCATCCCTGGTAAATAGAGGGTTCGTTCCAGGAAGAAAGTGAATCCTGAAACCC  GGCAGAAAAGCCCGATTGAAGGAAAAGTGGACCTATTGCGATGGTGGAGGCTGACAGAAA  CCACGCAGCCTTTTCCCCTGATACAATCCAGAAAGGAACCACTGGCTTATCGAGACCTG  GAAGCTTTGGCACAATCCAGGCGCAGAAGCCATTTTCATTAATGCCACCTCCCAAGACC  CGTCCCTGGAGGACCCATTGGAGGCCAAACCATGATTTCTCTGAGGACACAGCATCTGC  AGAACATTGCGACCTGGTATGGACT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_003172 unedited  GGACCGCGGGCCCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  TTTTTTAAAGGAAAAGGCCAAAACCTTTATACCAGTAGCACATGATCCAGCATAAAGGCA  GTCTTGAATACTGCATTATCCAGGACAGGGCTTCAGCAGCTGATCTGTCACACACCAG  GTGTCCCACGTAGGAATTTCTTAAACCACAGGTAGGATGTAGCTGCAAAAAGTCCATACC  AGGTACAGATGTACTGCAATGCTCGTTCTCAAAGTAACTCTGGTTTGCCTCCAAATGG  GTCCTCCAGGACTGTGCTCTGGAAGTTGGCATCAATGAAAATGGGCTCTGCGCCTGTGA  TTCTGGCCATAGCTTCCAGGTCTCGATAATGCCAGGGTTCCTTTCTGGATTGTTCTCAG  GGACAAAAGGCTGCCTGGTTTCTGTCAGCCTCACCATCCCAATGAGGTCCACTTCTCCCT  CAATCTGGCCTTTCTGCCGGTTTCAGGATTCACCTTTCTCTGGGAACGAACCCCTAT  TTACCAGGATGGTACTCCAGGTCCGTGTCAGTGAAGGGAGTGACCACATAGGCCCCAC  TCTGAGTTGAGGAGGAGATGAGGCCGCCCTCCCGGGCTCCCGGACAGGGTCCACCATGG  TCCGGGCATCATATACAGCTCCTTGAATGGTCAAAGCACCCCTGACCTTCACTGGCC  TATACTCCAGATTTTTTCANTTCCATTGGGTCCGCTGGCAAAGGGACAGGCTCACCCAAAC  TCTGGACTTCACTCTGCATCAGGGTCAGCTTCCACTTCCGACGCTGGACCTGCCATGTCC  CCAAGCCAAGGCAGTCACAGGGATGAGGGAGCAGGACCACTGAAAAGGGAGTCATCTCC  GCTTTGNGGCAAATGCTCTGCTGG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003172
<b>Insert Size:</b>	1070 bp
<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>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_003172.2</a></u> , <u><a href="#">NP_003163.1</a></u>
<b>RefSeq Size:</b>	1037 bp
<b>RefSeq ORF:</b>	903 bp
<b>Locus ID:</b>	6834
<b>UniProt ID:</b>	<u><a href="#">Q15526</a></u>
<b>Cytogenetics:</b>	9q34.2
<b>Domains:</b>	SURF1
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>This gene encodes a protein localized to the inner mitochondrial membrane and thought to be involved in the biogenesis of the cytochrome c oxidase complex. The protein is a member of the SURF1 family, which includes the related yeast protein SHY1 and rickettsial protein RP733. The gene is located in the surfeit gene cluster, a group of very tightly linked genes that do not share sequence similarity, where it shares a bidirectional promoter with SURF2 on the opposite strand. Defects in this gene are a cause of Leigh syndrome, a severe neurological disorder that is commonly associated with systemic cytochrome c oxidase deficiency.</p> <p>[provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>