

## Product datasheet for **MC226854**

### Surf1 (NM\_001271724) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Surf1 (NM\_001271724) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Surf1  
**Synonyms:** 0610010F23Rik; Surf-1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226854 representing NM\_001271724  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGCTGTGATGGCTTTGGCTGTGCTGCCGCGACGGATGACGCGGTGGTCGCAATGGGCTACGCGG  
 GACGGGCCAGTTCTGCGCTGTCAGGAGGAGCGTCTTTGGGTTTTCTGTCCGCTCAGGGATGGTCTGTAG  
 GCCACGCAGGTGTGCAGTTCTACTGCTGAAACAGCCCGCTAAAGCAGAGGACGATTCTTTTCTCCAG  
 TGGTTCCTGCTTTAATCCCTGCTACTGCTTTTGGCTGGGACTTGGCAGGTCCAACGTCGGAAATGGA  
 AGCTGAAACTTATTGCAGAATTAGAGTCTCGAGTCATGGCTGAGCCCATCCCTCTACCAGCAGACCCAAT  
 GAACTGAAAAATTTGGAGTACAGGCCAGTGAAGGTCAGGGGCCACTTTGACCACTCTAAAGAGTTGTAC  
 ATAATGCCTCGGACCATGGTGGATCCTGTCCGAGAGGCGCGAGATGCTGGCAGACTATCCTCAACTGAAA  
 GTGGGGCCCATGTAGTTACTCCTTTCCATTGCTCTGACTTGGGGAAGAAAGTGAATCCTGAGACCAGACA  
 GAAAGGCCAGGTTCTGGGAGAAGTAGACCTAGTTGGCATAGTGAGGCTCACAGAAAACAGGAAGCCCTTT  
 GTTCCGGAGAACAGCCAGAAAGGAATCACTGGTATTATCGAGACCTGGAAGCTATGGCCAAGATAACAG  
 GAGCGGACCCATTTTCATTGATGCAGACTTCCACAGCACAGCCCGCGGGCCCATCGGAGGACAGAC  
 GAGAGTGACTCTGCGCAATGAGCACATGCAGTACATCCTTACCTGGTACGGACTGTGTCCGCCACATCA  
 TATTTGTGGTTCCAAAAATTTGTACGTCGGACACCCATCATGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001271724  
**Insert Size:** 885 bp



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<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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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_001271724.1</a></u> , <u><a href="#">NP_001258653.2</a></u>
<b>RefSeq Size:</b>	1159 bp
<b>RefSeq ORF:</b>	885 bp
<b>Locus ID:</b>	20930
<b>UniProt ID:</b>	<u><a href="#">P09925</a></u>
<b>Cytogenetics:</b>	2 19.1 cM
<b>Gene Summary:</b>	<p>Component of the MITRAC (mitochondrial translation regulation assembly intermediate of cytochrome c oxidase complex) complex, that regulates cytochrome c oxidase assembly. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1. An in-frame AUG is located 32 codons upstream of the annotated translation start site but is not being annotated as a start site since it is not conserved and is in a weak Kozak sequence context. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>