

## Product datasheet for RC228764

### SUMF2 (NM\_001146333) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SUMF2 (NM_001146333) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SUMF2
Synonyms:	pFGE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<p>&gt;RC228764 representing NM_001146333</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p>

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCCCGGCATGGGTTACCGCTGCTGCCCTGCTGTCGCTCCTGGTCGGCGCTGGCTCAAGCTAGGAA  
 ATGGACAGGCTACTAGCATGGTCCAACGCAGGGTGGGAGATTCCTGATGGGAACAAATTCCTCAGACAG  
 CAGAGATGGTGAAGGGCCTGTGCGGGAGGCGACAGTGAAACCCCTTGCCATCGACATATTCCTGTCACC  
 AACAAAGATTTTCAGGGATTTTGTGAGGGAGAAAAAGTATCGGACAGAAGCTGAGATGTTTGGATGGAGCT  
 TTGTCTTTGAGGACTTTGTCTCTGATGAGCTGAGAAACAAAGCCACCCAGCCAATGAAGTCTGTACTCTG  
 GTGGCTTCCAGTGAAAAAGGCATTTTGGAGGCAGCCTGCAGGTCCTGGCTCTGGCATCCGAGAGAGACTG  
 GAGCACCCAGTGTTACACGTGAGCTGGAATGACGCCCGTGCCTACTGTGCTTGGCGGGGAAAAACGACTGC  
 CCACGGAGGAAGAGTGGGAGTTTGCCGCCCAGGGGGCTTGAAGGGTCAAGTTTACCCATGGGGGAACTG  
 GTTCCAGCCAAACCGCACCAACCTGTGGCAGGGAAAGTCCCCAAGGGAGACAAAGCTGAGGATGGCTTC  
 CATGGAGTCTCCCAAGTGAATGCTTTCCCGCCAGAACAACTACGGGCTCTATGACCTCCTGGGGAACG  
 TGTGGGAGTGGACAGCATACCGTACCAGGCTGCTGAGCAGGACATGCGCGTCTCCGGGGGATCCTG  
 GATCGACACAGCTGATGGCTCTGCCAATCACGGGGCCGGGTACCACCAGGATGGGCAACACTCCAGAT  
 TCAGCCTCAGACAACCTCGGTTTCCGCTGTGCTGCAGACGCAGGCCGGCCGCCAGGGGAGCTG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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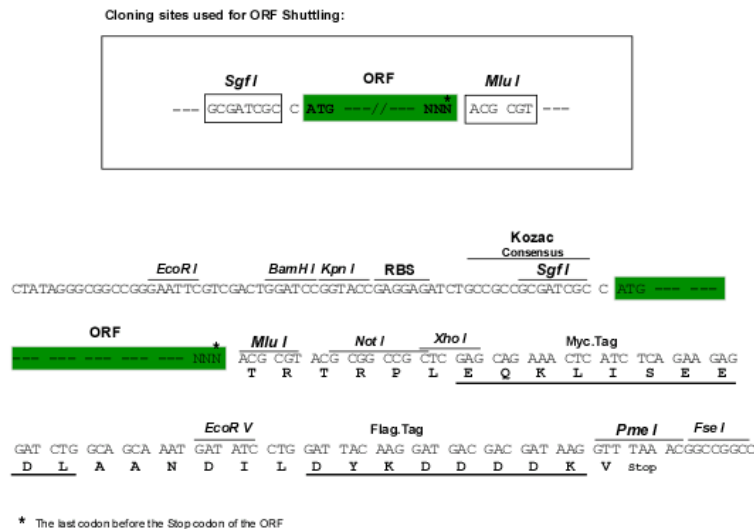
**Protein Sequence:** >RC228764 representing NM\_001146333  
 Red=Cloning site Green=Tags(s)

MARHGLPLLPLLSLLVGAWLKLGNQATSMVQLQGGRFLMGNTNSPDSRDGEGPVREATVKPFAIDIFPVT  
 NKDFRDFVREKKYRTEAEMFGWSFVFEDFVSDLRNKATQPMKSVLWWLPVEKAFWRQPAGPGSGIRERL  
 EHPVLHVSWNDARAYCAWRGKRLPTEEEWEFAARGGLKGQVYPWGNWFQPNRTNLWQGFPGDKAEDGF  
 HGVSPVNAFPAQNNYGLYDLLGNVWEWTASPYQAAEQDMRVLRGASWIDTADGSANHRARVTTRMGNTPD  
 SASDNLGFRCAADAGRPPGEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001146333

**ORF Size:** 903 bp

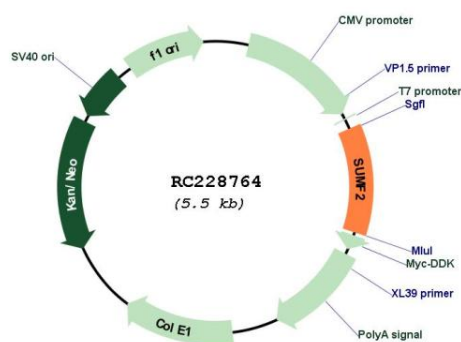
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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:	<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>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001146333.1, NP_001139805.1</u>
RefSeq Size:	1907 bp
RefSeq ORF:	642 bp
Locus ID:	25870
UniProt ID:	<u>Q8NBJ7</u>
Cytogenetics:	7p11.2
MW:	33.9 kDa
Gene Summary:	<p>The catalytic sites of sulfatases are only active if they contain a unique amino acid, C-alpha-formylglycine (FGly). The FGly residue is posttranslationally generated from a cysteine by enzymes with FGly-generating activity. The gene described in this record is a member of the sulfatase-modifying factor family and encodes a protein with a DUF323 domain that localizes to the lumen of the endoplasmic reticulum. This protein has low levels of FGly-generating activity but can heterodimerize with another family member - a protein with high levels of FGly-generating activity. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]</p>

## Product images:



Circular map for RC228764