

Product datasheet for **SC107512**

SUMF1 (NM_182760) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUMF1 (NM_182760) Human Untagged Clone
Tag:	Tag Free
Symbol:	SUMF1
Synonyms:	AAPA3037; FGE; UNQ3037
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_182760, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGCGCCCGCACTAGGGCTGGTGTGTGGACGTTGCCCTGAGCTGGGTCTCGTCTCTTGCTGCTGC
TGCTCTCGCTGCTGTGTGGAGCGGCAGGGAGCCAGGAGGCCGGGACCGGTGCGGGCGCGGGTCCCTTGC
GGGTTCTTGCGGCTGCGGCACGCCCCAGCGGCCTGGCGCCATGGCAGTTCGGCAGCCGCTCACCAGTAC
TCGCGGGAGGCTAACGCTCCGGGCCCGTACCCGGAGAGCGGCAACTCGCGCACTCAAAGATGGTCCCA
TCCCTGCTGGAGTATTTACAATGGGCACAGATGATCCTCAGATAAAGCAGGATGGGGAAGCACCTGCGAG
GAGAGTTACTATTGATGCCTTTTACATGGATGCCTATGAAGTCAGTAATACTGAATTTGAGAAGTTTGTG
AACTCAACTGGCTATTTGACAGAGGCTGAGAAGTTTGGCGACTCCTTTGTCTTTGAAGGCATGTTGAGTG
AGCAAGTGAAGACCAATATTCAACAGGCAGTTGCAGCTGCTCCCTGGTGGTTACCTGTGAAAGGCGCTAA
CTGGAGACACCCAGAAGGGCCTGACTCTACTATTCTGCACAGGCCGGATCATCCAGTTCTCCATGTGTCC
TGGAAATGATGCGGTTGCCTACTGCACTTGGGCAGGGAAGCGGCTGCCACGGAAGCTGAGTGGGAATACA
GCTGTCGAGGAGGCTGCATAATAGACTTTTCCCTGGGGCAACAACTGCAGCCCAAAGGCCAGCATT
TGCCAACATTTGGCAGGGCGAGTTTCCGGTGACCAACTGGTGAGGATGGCTTCCAAGGAACTGCGCCT
GTTGATGCCTTCCCTCCCAATGGTTATGGCTTATACAACATAGTGGGAAACGCATGGGAATGGACTTCAG
ACTGGTGGACTGTTTCATCATTCTGTTGAAGAAACGCTTAAACCCAAAAGGTCCCTTCTGGGAAAGACC
AGTGAAGAAAGGTGGATCCTACATGTGCCATAGGCTTATTGTTACAGGTATCGCTGTGCTGCTCGGAGC
CAGAACACACCTGATAGCTCTGCTTCAATCTGGGATTCGCTGTGCAGCCGACCGCTGCCCACTATGG
ACTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_182760 unedited
 GCAACAATTTGTAATACGAACTCACTATAGGGCGGCCGGAATCGGCACGAGGACAACAT
 GGCTGCGCCCGCACTAGGGCTGGTGTGTGGACGTTGCCCTGAGCTGGGTCTCGTCTCTT
 GCTGCTGCTGCTCTCGTGTGTGTGGAGCGGCAGGGAGCCAGGAGGCCGGGACCGGTGC
 GGGCGCGGGTCCCTTGCGGTCTTTCGGCTGCGGCACGCCACGCGCCTGGCGCCA
 TGGCAGTTCGGCAGCCGCTCACCAGATACTCGCGGGAGGCTAACGCTCCGGGCCCGTACC
 CGGAGAGCGGCAACTCGCGCACTCAAAGATGGTCCCATCCCTGCTGGAGTATTTACAAT
 GGGCACAGATGATCCTCAGATAAAGCAGGATGGGGAAGCACCTGCGAGGAGATTTACTAT
 TGATGCCTTTTACATGGATGCCTATGAAGTCAGTAATACTGAATTTGAGAAGTTTGTGAA
 CTCAACTGGCTATTTGACAGAGGCTGAGAAGTTTGGCGACTCCTTTGTCTTTGAAGGCAT
 GTTGAGTGAGCAAGTGAAGACCAATATTCAACAGGCAGTTGCAGCTGCTCCCTGGTGGTT
 ACCTGTGAAAGGCGCTAACTGGAGACACCCAGAAGGGCCTGACTCTACTATTCTGCACAG
 GCCCGATCATCCAGTTCCTCATGTGTCTGGAATGATGCCGTTGCCTACTGCACTTNGGC
 ANNGGAAGCNGCTGCCACGGAAGCTGAGTGGGAATACAGCTGTGAGGGAGCCTGCATA
 ATAGACNTTTTCCCTGGGGCAAACTGCAGCCCAAAGCCAGCATTATGCCACATTT
 GGCAGGNCGAGNTTCCGGTGACCACACTGGTGAGGATGGCTTTCAAGAAGTGCGCCCTGT
 GATGCCTTCTCCAATGGTTATGGGCTATCACATAATGGGAACCCATGGATGGACTCAAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_182760 unedited
 ATCTATGGACGCGGCCGAATCTANATCGAGTTTTTTTTTTTTTTTTTTTTTCTGATTTA
 GCAGATACGTTTATTCAACACAGTGCATGATTCAAAGCATCGGATATCCACAGCCAACA
 AGGTTTCTATTCCCTATTACAAAATACCGGATACCCTGAATATAGCTCATTCAAGGTCC
 TCGTTCTTTTTCCCTATATCTAGAATTAACAGTTTTCCCGTTTAGCGCACATTTTAC
 GTTCGCTGAAGGCTTTGGGGAGAGGGGAAACAGAGCTTATGACTGCCCTCTGAACCAA
 AGGCACCTAATGTAAAAGATAAAGCACAGTAGAGTCACCCACAGACATTCCTATGTGT
 TCAACGGCTGAATTCAGCATACCATCACCGGCCCATGTGGGATTATCATAACAACGT
 AAAAGACACTGATTTCTTGGAAAAACAAAGTGCAGTACGAATATAAAGGAGTACCACA
 CCCCTCTCCGAAAAATAACATAAGAGAACTCTACTTTACATGATTAGTATCACTCAA
 GGTTACACATGGAAAAAATAGCTAAAAAATACTATCATAAATTCTATGAAGTCACAA
 TAGAATCTGATACCCTTTTTAGAACTGGTGAAGTTGGAGAGACACCCAGAGGTCATGCTGT
 CCATCCCTTCATTTGATAGGGGAGGGCACTTGAGGCCAGGAAGGTCAAGCGTCGGACCT
 GGGGTCTAACCCCTGTGCAAGCCTGCGTAAGATGCGGGCCTCCTGAAGCCTACTCAGGG
 TTTCTCCACTCCCTTCTCTTTAAAGACTCTCAAAGTAAATATGGTGATGATCTCCAAA
 GATGCCCCACCTTAAGACATGCCCTGCCCCGTGAGCAATTTGGTTACAAGGCGGTT
 CCTTTGGCCATGGGGCAGGATGTAACCCCTCAGGGGGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_182760

Insert Size:

2250 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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:

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: [NM_182760.2](#), [NP_877437.2](#)

RefSeq Size: 2148 bp

RefSeq ORF: 1125 bp

Locus ID: 285362

UniProt ID: [Q8NBK3](#)

Cytogenetics: 3p26.1

Gene Summary: This gene encodes an enzyme that catalyzes the hydrolysis of sulfate esters by oxidizing a cysteine residue in the substrate sulfatase to an active site 3-oxoalanine residue, which is also known as C-alpha-formylglycine. Mutations in this gene cause multiple sulfatase deficiency, a lysosomal storage disorder. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).