

## Product datasheet for **SC326914**

### SUMF1 (NM\_001164674) Human Untagged Clone

#### Product data:

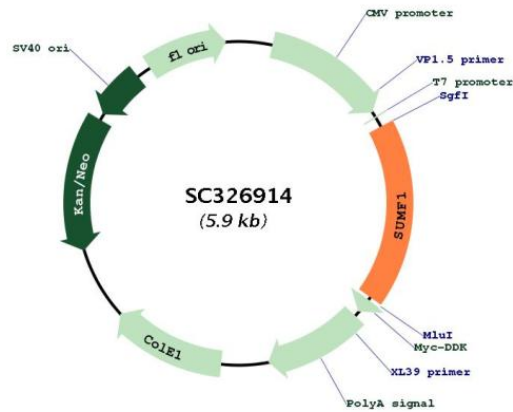
Product Type:	Expression Plasmids
Product Name:	SUMF1 (NM_001164674) Human Untagged Clone
Tag:	Tag Free
Symbol:	SUMF1
Synonyms:	AAPA3037; FGE; UNQ3037
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326914 representing NM_001164674. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGCGCCCGCACTAGGGCTGGTGTGTGGACGTTGCCCTGAGCTGGGTCTCGTCTCTTGTCTGCTG
CTGCTCTCGTGTGTGGAGCGGCAGGGAGCCAGGAGCGCGGACCGGTGCGGGCGGGGTCCCTT
GCGGGTCTTTCGGCTGCGGCACGCCCCAGCGCCTGGCGCCATGGCAGTTCGGCAGCCGCTCACCGA
TACTCGCGGGAGGCTAACGCTCCGGGCCCGTACCCGGAGAGCGGCAACTCGCGCACTCAAAGATGGTC
CCCATCCCTGCTGGAGTATTTACAATGGGCACAGATGATCCTCAGATAAAGCAGGATGGGAAGCACCT
GCGAGGAGAGTACTATTGATGCCTTTTACATGGATGCCTATGAAGTCAGTAATACTGAATTTGAGAAG
TTTGTGAACCAACTGGCTATTTGACAGAGGTTGACAGCTGCTCCCTGGTGGTTACCTGTAAAGGCGCT
AACTGGAGACACCCAGAAGGGCCTGACTCTACTATTCTGCACAGGCCGGATCATCCAGTTCTCCATGTG
TCCTGGAATGATGCGGTTGCCTACTGCCTTGGGCAGGGAAGCGGCTGCCACGGAAGCTGAGTGGGAA
TACAGTGTGCGAGGAGCCTGCATAATAGACTTTTCCCTGGGGCAACAACTGCAGCCAAAGGCCAG
CATTATGCCAACATTTGGCAGGGCGAGTTTCCGGTGACCAACACTGGTGAGGATGGCTTCCAAGAACT
GCGCCTGTTGATGCCTTCCCTCCCAATGGTTATGGCTTATACAACATAGTGGGAACGCATGGGAATGG
ACTTCAGACTGGTGGACTGTTTCATCATTCTGTTGAAGAAACGCTTAACCCAAAAGGTCCCCCTTCTGGG
AAAGACCGAGTGAAGAAAGGTGGATCCTACATGTCCATAGGCTTATTGTTACAGGTATCGCTGTGCT
GCTCGGAGCCAGAACACACCTGATAGCTGCTTCCAATCTGGGATTCGGCTGTGAGCCGACCGCCCTG
CCCACTATGGACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001164674

**Insert Size:** 1050 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001164674.1](#)

**RefSeq Size:** 2104 bp

**RefSeq ORF:** 1050 bp

**Locus ID:** 285362

UniProt ID: [Q8NBK3](#)

Cytogenetics: 3p26.1

MW: 37.8 kDa

**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 (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1.