

Product datasheet for **MC201686**

Sumf1 (NM_145937) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sumf1 (NM_145937) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sumf1
Synonyms:	AA543204; AI463102; AI851573; FGE
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC026981 sequence for NM_145937
 ATGGCTGCGCCCGCGAGAGCCGGCTCTCCGCTGCTGCATCAGACTGGCGCGAGTCTTCTTGTCTGCTGG
 TGTTGGCGTGCAGAGTGGCGGGAAGCGATGAGGCCAGGCCAGGGAAGGTGCGGCGTCCCTTGCGGGCTC
 GTGCGGCTGCGGAACGCCCCAGAGGGCCGGGGCCCATGGCAGCTCGGCGGCGCGCAGCGCTACTCCCGG
 GAGGCGAACGCCCGGCTGACCTCAGGCCCGCACCCTCGCGCTACCAAGATGGTCCCCATTCCTG
 CTGGAGTATTCACAATGGGCACTGATGATCCTCAGATCAGGCAGGATGGAGAAGCCCTGCCAGGAGAGT
 ACTGGCTATTTGACAGAGGCTGAGAAGTTTGGAGACTCTTTCGTCTTTGAAAGGCATGTTGAGCGAGCAAG
 TGAAAACGCATATCCACCAGGCAGTTGACAGCTGCTCCATGGTGGTTGCCTGTCAAGGAGCTAATTGGAG
 ACACCCAGAGGGTCCGGACTCCAGTATTCTGCACAGGTCAAATCATCCGGTTCTCCATGTTTCTGGAAC
 GATGCTGTTGCCTACTGCACATGGGCGGCAAGAGGTTGCCTACTGAGGCAGAGTGGGAATACAGCTGTA
 GAGGAGGCTGCAGAACAGGCTTTCCCTGGGCAACAACTGCAGCCAAAGGACAGCATTATGCCAA
 CATCTGGCAGGCAAGTTTCTGTGAGCAACACTGGCAGGATGGCTTCCAAGGAACTGCCCCGTTGAT
 GCCTTTCCTCCCAATGGCTATGGCTTATACAACATAGTGGGAATGTGTGGGAGTGGACCTCAGACTGGT
 GGACTGTTCAACCATTCTGTTGAGGAAAGCTTCAACCCAAAGGGTCCCCTTCTGGGAAAGACCGAGTGAA
 GAAGGGTGGATCCTACATGTGCCATAAGTCTATTGCTATAGGTACCGCTGTGCAGCTCGAAGCCAGAAC
 ACACCAGATAGCTCTGCATCCAACCTGGGATCCGATGTGCAGCCGACCCTGCCACCCGAGACTGAC
 AGCCAAGAGGAGCTTTCCAGATTCAAGAAGGCGTTTCTTACTCGCAGCTGGCCTCCCCTGGAAATCTGA
 ACTGATCTCATGTAAGTATTCCCATCTACGGAGGATCCATGTCCACCCAGTGGCCAAAGGAACTGTCT
 CGCGTGACCAAATGGCTGGCGAGTGTGACACGTGTGCTTATTGTGTGGTGTATCTTTGGGGATCATCG
 CCATGTTTTACTTTGAAAGCCTTTTGAAGAGGAGAGCCGAGAACCAGGAAGTCTGGCCAGACTCTGC
 CACAGGGTCCAGCCCTGGAGTCCAGCACCTTGTCTGCCTTGCCTGTCTCCTCATGAAATGAGGGATG
 GTCAACGTGATCTTTGAGGCTCTCTCAACTCTATTTGAACTAGCAGATTCTATTCGAACAGCAGAGTG
 TATTGTGATTGCATAGTGAGAATTTATGACAGATTATTTTTTAGCTATTTTTTGGCCATGTGTGAATCTT
 GAGTAATACTAATCATATAAGGCGAGAGTTATCTTACATATTATTTTCAGAAAAGGGTGGGGTTGAGTC
 TTTTATATTCACTGCACTTTGTTCTTTCAAGGAAATCAGTGTCTTTTACATTGTTGTGACAAATCCCA
 TTGGGACAGCGAGGGGACACTTAAGTTTGGAGTCTGAACACACAGGAATGCCTGTGGAGTGACTTACT
 GTCCTTTTTCTTTGACATTAAGTGCCTTTGGCTCAGAGGGACAGTTTGAAGCCTTGTTCCTTTGCC
 CCCAAGCCTTCAAAGAATGTGAAATATGTAATAATTAGGAAACCATTTAATTCTAGGTCTTTGGGTGTT
 GAGGTTTTGTGAGATGGTATGAATTGTATTGTAATGCTAAATCTGGTACCTGAAGGTCTAGGCTGTGAG
 TGAAATTCACATTTACAAGATTTTGTGTGCAAACTTGTTCCTAATTTAAACTATTGGTTAAATAA
 AATTGGCTACAGCCAATTACTGGAGGGATTAGAGGTAGGTGGGTTTTGAGTGTGGTTGGGTATGGAGAGA
 GAGAGGAGAGATCAAGGAGAGAAGCAGGAAGAAGAGGATAGGAGGAGCTGCCATGAAGAAGATGGACCAT
 AAGCCTTTGTCCAGAGGAAACTCCCAAGTATCTGGGAACACCGCTGTGAGGCAACCAGGCCAGCAGTTAG
 AAAAGTAGATTAGGGGCTACCCCGATAATTGTCAAAGCCAAATAAAATATCCATAGTCTGAGTCTCATT
 TATTTGTAAGCCAGTTGGGGATAAGCTTATATTGGTACCACATGGGAGAAAAAGAACCAGGACCTTGAAT
 AGACTCCATTGAGGTGTGTGATATATTACACCAGAGAGATACGAGAAATCTGGTTGATTTTGGCATATC
 AGATGCTTTGAATCATGTACTATGTCAAATAAACTAGTACCTCCCGAAAAAAAAAAAAAAAAAAAAAAAAA
 AA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_145937
- Insert Size:** 855 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).
- 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: [BC026981](#), [AAH26981](#)

RefSeq Size: 2641 bp

RefSeq ORF: 855 bp

Locus ID: 58911

UniProt ID: [Q8R0F3](#)

Cytogenetics: 6 E1

Gene Summary: Oxidase that catalyzes the conversion of cysteine to 3-oxoalanine on target proteins, using molecular oxygen and an unidentified reducing agent. 3-oxoalanine modification, which is also named formylglycine (fGly), occurs in the maturation of arylsulfatases and some alkaline phosphatases that use the hydrated form of 3-oxoalanine as a catalytic nucleophile. Known substrates include GALNS, ARSA, STS and ARSE.[UniProtKB/Swiss-Prot Function]