

Product datasheet for **MC229084**

Sulf1 (NM_001198566) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sulf1 (NM_001198566) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sulf1
Synonyms:	AI467640; AW121680; mKIAA1077
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC229084 representing NM_001198566
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTATTCCTCTGGGCTCTGCTGCTTGCCGTGCTGGGCACACAGCTGCTGGGAAGCCTGTGTCCA
 CCGTTCGGTCCCAGAGGTTCCGAGGAAGGATACAGCAGGAACGAAAAACATCAGACCCAATATTATCCT
 TGTGCTCACTGACGACCAGGATGTGGAGCTGGGTTCCCTGCAAGTCATGAACAAGACGAGAAAGATCATG
 GAACAGGGTGGGGCCACCTTCACCAATGCCTTTGTGACCACGCCATGTGCTGTCCATCACGCTCATCCA
 TGCTCACTGGGAAGTACGTGCATAACCACAATGTCTACACCAACAATGAGAACTGCTCGTCTCCCTCGTG
 GCAGGCAATGCACGAGCCTCGGACCTTTGCTGTGTATCTCAACAACACCGGCTACAGAACAGCCTTTTTT
 GGAAAATACCTCAATGAATAACAATGGCAGCTACATCCCTCCTGGATGGCGAGAATGGCTCGGATTAATCA
 AGAATTCTCGTTTCTATAATTACTGTGTGTCGCAACGGCATCAAGGAGAAGCATGGATTTGATTATGC
 AAAGGATTACTTCACAGACTTAATCACTAACGAGAGCATTAACTTCAAATGTCTAAGAGAATGTAT
 CCCCATAGGCCATTATGATGGTGATCAGCCATGCAGCACCACATGGCCCTGAAGACTCCGCCCCACAGT
 TTTCAAACACTGTACCCCAATGCCTCCCAACACATAACACCCAGCTATAACTATGCACCGAACATGGACAA
 ACACTGGATCATGCAGTACACAGGGCCCATGTTGCCTATCCACATGGAGTTCACCAACGTCTCCAGCGC
 AAACGACTGCAGACTCTGATGTCAGTTGACGACTCTGTCGAGAGGTTGTACAACATGCTTGTGGAGAGCG
 GGGAGCTGGACAACACTTACATCATCTACACTGCGGACCACGGCTACCACATTGGACAGTTTGGGCTGGT
 CAAGGGGAAATCCATGCCCTACGACTTTGACATCCGTGTGCCTTCTTTCATTCTGGTCCAAGCATAGAA
 CCAGGTCGATAGTCCCACAGATTGTTCTGAACATCGACCTAGCTCCTACCATTCTGGATATTGGTCTC
 TTGACTCTCCTTCTGATGTGGATGGTAAATCTGTCTCAAATCTAGACCTGGAAAAAGCGGGTAAACG
 GTTTCGGACAAAACAAGAAGGCCAAAATCTGGCGTGATACATTCTAGTGGAAAGAGGGAAATTTTTACGG
 AAGAAGGAGGAATCCGGCAAGAATATCCAACAGTCAAACCACTTGCCCAAATATGAGAGGGTCAAGGAAC
 TGTGCCAGCAAGCCAGATACCAGACAGCCTGTGAGCAGCCTGGGCAGAACTGGCAGTGCATCGAGGACAC
 ATCCGGCAAGCTCCGAATCCACAAGTGTAAAGGGACCCAGCAGCTGCTCACGGTCCGTGAGAATGCACGC
 AACCTCTACTCTCGGGATTGCATGACAAAGACAAAGAGTGCCATTGTAGGGACTCTGGCTATCGCTCGA
 GCAGAAGCCAGAGAAAGAATCAAAGGCAGTTCTGAGGAACAAGGGAACACCAAAGTATAAGCCCAGATT
 TGTGCACACCCGGCAGACTCGGTCCCTGTCTGTTGAATTCGAAGGTGAAATATATGACATCAACCTGGAA
 GAAGAAGAACTGCAAGTGTACCACCAAGGAGCATTGCCAAGCGCCATGATGAGGGTACCAGGGCTTCA
 TTGGCCACCAGGCTGCTGCTGGTGACATCAGGAATGAGATGTTGGCAGACAGCAACAATGCTGTGGGGTT
 ACCCGCCACTGTCCGGGTGACACACAAGTGCTTTATTCTTCAAACGACACAATCCACTGTGAGAGGGAG
 CTGTACCAGTCAGCCAGAGCGTGGAAAGGACCATAAGGCCTACATTGATAAAGAGATTGAAGTTCTACAAG
 ATAAAAATTAAGAAATTAAGGGAAAGTGAAGGGACACCTAAAGAAAAGGAAACCTGAGGAGTGTGGCTGTGG
 TGACCAGAGCTATTACAACAAAGAGAAAGGTGTCAAACGACAGGAGAAGCTAAAGAGTCACTTCACCCC
 TTCAAGGAGGCTGCTGCCAGGAGGTGGATAGCAAATTCAGCTCTTCAAGGAGCATCGGAGGAGGAAGA
 AGGAGAGGAAGGAGAAGAAACGGCAGAGGAAGGAGAGGAGTGTAGCCTGCCTGGCCTTACCTGCTTAC
 CCATGACAACAACCACTGGCAGACTGCCCCATTCTGGAACCTGGGATCTTTCTGTGCTGCACAAGTTCT
 AACAAACAATACCTACTGGTGTGTTGCGTACAGTCAACGAGACGCACAATTTCTGTTTTGTGAGTTTGCTA
 CTGGCTTTCTGGAATATTTTCGACATGAATACGGATCCTTATCAGCTCACAAATACAGTACACACAGTAGA
 ACGGAGCATCTTAAATCAGCTACACATACAGCTGATGGAGCTCCGAAGCTGCCAAGGGTATAAACAGTGC
 AACCCAAGACCAAGAGCCTGGACATTGGAGCTAAAGAAGGAGGAAACTATGACCCGCACAGAGGACAGT
 TATGGGATGGATGGGAAGGT**AG**

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001198566
Insert Size: 2613 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001198566.1</u> , <u>NP_001185495.1</u>
RefSeq Size:	4544 bp
RefSeq ORF:	2613 bp
Locus ID:	240725
UniProt ID:	<u>Q8K007</u>
Cytogenetics:	1 A3
Gene Summary:	<p>Exhibits arylsulfatase activity and highly specific endoglucosamine-6-sulfatase activity. It can remove sulfate from the C-6 position of glucosamine within specific subregions of intact heparin. Diminishes HSPG (heparan sulfate proteoglycans) sulfation, inhibits signaling by heparin-dependent growth factors, diminishes proliferation, and facilitates apoptosis in response to exogenous stimulation (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. All three variants encode the same protein.</p>