

## Product datasheet for **MC229083**

### Sulf1 (NM\_001198565) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sulf1 (NM_001198565) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sulf1
Synonyms:	AI467640; AW121680; mKIAA1077
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC229083 representing NM\_001198565  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGTATTCCTCTGGGCTCTGCTGCTTGCCGTGCTGGGCACACAGCTGCTGGGAAGCCTGTGTCCA  
 CCGTTCGGTCCCAGAGGTTCCGAGGAAGGATACAGCAGGAACGAAAAACATCAGACCCAATATTATCCT  
 TGTGCTCACTGACGACCAGGATGTGGAGCTGGGTTCCCTGCAAGTCATGAACAAGACGAGAAAGATCATG  
 GAACAGGGTGGGGCCACCTTCACCAATGCCTTTGTGACCACGCCATGTGCTGTCCATCACGCTCATCCA  
 TGCTCACTGGGAAGTACGTGCATAACCACAATGTCTACACCAACAATGAGAACTGCTCGTCTCCCTCGT  
 GCAGGCAATGCACGAGCCTCGGACCTTTGCTGTGTATCTCAACAACACCGGCTACAGAACAGCCTTTTTT  
 GAAAAATACCTCAATGAATAACAATGGCAGCTACATCCCTCCTGGATGGCGAGAATGGCTCGGATTAATCA  
 AGAATTCTCGTTTCTATAATTACTGTGTGTCGCAACGGCATCAAGGAGAAGCATGGATTTGATTATGC  
 AAAGGATTACTTCACAGACTTAATCACTAACGAGAGCATTAACTTCAAATGTCTAAGAGAATGTAT  
 CCCCATAGGCCATTATGATGGTATCAGCCATGCAGCACCACATGGCCCTGAAGACTCCGCCCCACAGT  
 TTTCAAACACTGTACCCCAATGCCTCCCAACACATAACACCCAGCTATAACTATGCACCGAACATGGACAA  
 AACTGGATCATGCAGTACACAGGGCCCATGTTGCCTATCCACATGGAGTTCACCAACGTCTCCAGCGC  
 AAACGACTGCAGACTCTGATGTCAGTTGACGACTCTGTCGAGAGGTTGTACAACATGCTTGTGGAGAGCG  
 GGGAGCTGGACAACACTTACATCATCTACACTGCGGACCACGGCTACCACATTGGACAGTTTGGGCTGGT  
 CAAGGGGAAATCCATGCCTACGACTTTGACATCCGTGTGCCTTCTTTCATTCTGGTCCAAGCATAGAA  
 CCAGGTCGATAGTCCCACAGATTGTTCTGAACATCGACCTAGCTCCTACCATTCTGGATATTGCTGGTC  
 TTGACTCTCCTTCTGATGTGGTAAATCTGTCCTCAAATCTAGACCTGGAAAAAGCGGGTAAAC  
 GTTTCGGACAAAACAAGAAGGCCAAAATCTGGCGTGATACATTCTAGTGGAAAGAGGGAAATTTTACGG  
 AAGAAGGAGGAATCCGGCAAGAATATCCAACAGTCAAACCACTTGCCCAAATATGAGAGGGTCAAGGAAC  
 TGTGCCAGCAAGCCAGATACCAGACAGCCTGTGAGCAGCCTGGGCAGAACTGGCAGTGCATCGAGGACAC  
 ATCCGGCAAGCTCCGAATCCACAAGTGTAAAGGGACCCAGCAGCTGCTCACGGTCCGTGAGAATGCACGC  
 AACCTCTACTCTCGGGATTGCATGACAAAGACAAAGAGTGCCATTGTAGGGACTCTGGCTATCGCTCGA  
 GCAGAAGCCAGAGAAAGAATCAAAGGCAGTTCTGAGGAACAAGGAACACCAAAGTATAAGCCCAGATT  
 TGTGCACACCCGGCAGACTCGGTCCTGTCTGTTGAATTCGAAGGTGAAATATATGACATCAACCTGGAA  
 GAAGAAGAACTGCAAGTGTACCACCAAGGAGCATTGCCAAGCGCCATGATGAGGGTACCAGGGCTTCA  
 TTGGCCACCAGGCTGCTGCTGGTACATCAGGAATGAGATGTTGGCAGACAGCAACAATGCTGTGGGGTT  
 ACCCGCCACTGTCCGGGTGACACACAAGTGCTTTATTCTTCAAACGACACAATCCACTGTGAGAGGGAG  
 CTGTACCAGTCAGCCAGAGCGTGGAAAGGACCATAAGGCCTACATTGATAAAGAGATTGAAGTTCTACAAG  
 ATAAAAATTAAGAAATTAAGGGAAAGTGAAGGGACACCTAAAGAAAAGGAAACCTGAGGAGTGTGGCTGTGG  
 TGACCAGAGCTATTACAACAAAGAGAAAGGTGTCAAACGACAGGAGAAGCTAAAGAGTCACTTCACCCC  
 TTCAAGGAGGCTGCTGCCAGGAGGTGGATAGCAAACCTCAGCTCTTCAAGGAGCATCGGAGGAGGAAGA  
 AGGAGAGGAAGGAGAAGAAACGGCAGAGGAAGGAGAGGAGTGTAGCCTGCCTGGCCTTACCTGCTTAC  
 CCATGACAACAACCACTGGCAGACTGCCCCATTCTGGAACCTGGGATCTTTCTGTGCTGCACAAGTTCT  
 AACAAACAATACCTACTGGTGTGTCGTACAGTCAACGAGACGCACAATTTCTGTTTTGTGAGTTTGCTA  
 CTGGCTTTCTGGAATATTTTCGACATGAATACGGATCCTTATCAGCTCACAAATACAGTACACACAGTAGA  
 ACGGAGCATCTTAAATCAGCTACACATACAGCTGATGGAGCTCCGAAGCTGCCAAGGGTATAAACAGTGC  
 AACCCAAGACCAAGAGCCTGGACATTGGAGCTAAAGAAGGAGGAAACTATGACCCGCACAGAGGACAGT  
 TATGGGATGGATGGGAAGGT**AG**

**ACGGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAAGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001198565

<b>Insert Size:</b>	2613 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<u>NM_001198565.1, NP_001185494.1</u>
<b>RefSeq Size:</b>	4639 bp
<b>RefSeq ORF:</b>	2613 bp
<b>Locus ID:</b>	240725
<b>UniProt ID:</b>	<u>Q8K007</u>
<b>Cytogenetics:</b>	1 A3
<b>Gene Summary:</b>	<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 (1) may represent the longest transcript. All three variants encode the same protein.</p>