

Product datasheet for **MC222349**

Sulf1 (NM_172294) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sulf1 (NM_172294) 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: >MC222349 representing NM_172294
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTATTCCCTCTGGGCTCTGCTGCTTGCCGTGCTGGGCACACAGCTGCTGGGAAGCCTGTGTCCA
 CCGTTCGGTCCCAGAGGTTCCGAGGAAGGATACAGCAGGAACGAAAAACATCAGACCCAATATTATCCT
 TGTGCTCACTGACGACCAGGATGTGGAGCTGGGTTCCCTGCAAGTCATGAACAAGACGAGAAAGATCATG
 GAACAGGGTGGGGCCACCTTCACCAATGCCTTTGTGACCACGCCCATGTGCTGTCCATCACGCTCATCCA
 TGCTCACTGGGAAGTACGTGCATAACCACAATGTCTACACCAACAATGAGAACTGCTCGTCTCCCTCGTG
 GCAGGCAATGCACGAGCCTCGGACCTTTGCTGTGTATCTCAACAACACCGGCTACAGAACAGCCTTTTTT
 GGAAAACTCTCAATGAATACAATGGCAGCTACATCCCTCCTGGATGGCGAGAATGGCTCGGATTAATCA
 AGAATTCTCGTTTCTATAATTACACTGTTGTGCAACGGCATCAAGGAGAAGCATGGATTTGATTATGC
 AAAGGATTACTTCACAGACTTAATCACTAACGAGAGCATTAACTTCAAAATGTCTAAGAGAATGTAT
 CCCCATAGGCCATTATGATGGTGATCAGCCATGCAGCACCACATGGCCCTGAAGACTCCGCCCCACAGT
 TTTCAAACTGTACCCCAATGCCTCCCAACACATAACACCCAGCTATAACTATGCACCGAACATGGACAA
 ACACTGGATCATGCAGTACACAGGGCCCATGTTGCCTATCCACATGGAGTTCACCAACGTCCTCCAGCGC
 AAACGACTGCAGACTCTGATGTCAGTTGACGACTCTGTCGAGAGGTTGTACAACATGCTTGTGGAGAGCG
 GGGAGCTGGACAACACTTACATCATCTACACTGCGGACCACGGCTACCACATTGGACAGTTTGGGCTGGT
 CAAGGGGAAATCCATGCCCTACGACTTTGACATCCGTGTGCCTTTCTTCATTCTGGTCCAAGCATAGAA
 CCAGGGTCGATAGTCCCACAGATTGTTCTGAACATCGACCTAGCTCCTACCATTCTGGATATTGCTGGTC
 TTGACTCTCCTTCTGATGTGGATGGTAAATCTGTCTCAAACCTCTAGACCTGAAAAAGCCGGTAACAG
 GTTTCGGACAAACAAGAAGGCCAAAATCTGGCGTGATACATTCTAGTGGAAGAGGGAAATTTTACGG
 AAGAAGGAGGAATCCGGCAAGAATATCCAACAGTCAAACCACTTGCCCAATATGAGAGGGTCAAGGAAC
 TGTGCCAGCAAGCCAGATACCAGACAGCCTGTGAGCAGCCTGGGCAGAACTGGCAGTGCATCGAGGACAC
 ATCCGGCAAGCTCCGAATCCACAAGTGAAGGGACCCAGCGACCTGCTCACGGTCCGTGAGAATGCACGC
 AACCTCTACTCTCGCGATTGTCATGACAAAGACAAAGAGTGCCATTGTAGGACTCTGGCTATCGCTCGA
 GCAGAAGCCAGAGAAAGAATCAAAGGCAGTTCTGAGGAACAAGGAACACCAAGTATAAGCCAGATT
 TGTGCACACCCGGCAGACTCGGTCCCTGTCTGTTGAATTCGAAGGTGAAATATATGACATCAACCTGGAA
 GAAGAAGAACTGCAAGTGTACCAACAGGAGCATTGCCAAGCGCCATGATGAGGGTCACCAGGGCTTCA
 TTGGCCACCAGGCTGCTGCTGGTGACATCAGGAATGAGATGTTGGCAGACAGCAACAATGCTGTGGGGTT
 ACCCGCCACTGTCCGGGTGACACACAAGTGCTTTATTCTTCCAAACGACACAATCCACTGTGAGAGGGAG
 CTGTACCAGTCAGCCAGAGCGTGAAGGACCATAAGGCCTACATTGATAAAGAGATTGAAGTTCTACAAG
 ATAAAAATTAAGAAATTTAAGGGAAGTGAGGGGACACCTAAAGAAAAGGAAACCTGAGGAGTGTGGCTGTG
 TGACCAGAGCTATTACAACAAAGAGAAAGGTGTCAAACGACAGGAGAAGCTAAAGAGTCACCTTCACCCC
 TTCAAGGAGGCTGCTGCCAGGAGGTGGATAGCAAACCTTCAGCTCTTCAAGGAGCATCGGAGGAGGAAGA
 AGGAGAGGAAGGAGAAGAAACGGCAGAGGAAGGAGAGGAGTGTAGCCTGCCTGGCCTTACCTGCTTCAC
 CCATGACAACAACCACTGGCAGACTGCCCCATTCTGGAACCTGGGATCTTCTGTGCCTGCACAAGTTCT
 AACAAACAATACCTACTGGTGTTTGGGTACAGTCAACGAGACGCACAATTTCTGTTTGTGAGTTTGCTA
 CTGGCTTTCTGGAATATTTGACATGAATACGGATCCTTATCAGCTCACAAATACAGTACACACAGTAGA
 ACGGAGCATCTTAAATCAGCTACACATACAGCTGATGGAGCTCCGAAGCTGCCAAGGGTATAAACAGTGC
 AACCCAAGACCAAGAGCCTGGACATTGGAGCTAAAGAAGGAGGAACTATGACCCGCACAGAGGACAGT
 TATGGGATGGATGGGAAGGT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_172294
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).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_172294.1, NP_758498.1</u>
RefSeq Size:	4623 bp
RefSeq ORF:	2613 bp
Locus ID:	240725
UniProt ID:	<u>Q8K007</u>
Cytogenetics:	1 A3
Gene Summary:	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] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. All three variants encode the same protein.