

Product datasheet for **SC110537**

Sulfatase 2 (SULF2) (NM_198596) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sulfatase 2 (SULF2) (NM_198596) Human Untagged Clone
Tag:	Tag Free
Symbol:	Sulfatase 2
Synonyms:	HSULF-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC110537 sequence for NM_198596 edited (data generated by NextGen Sequencing)

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ATGGGCCCCCGAGCCTCGTGCTGTGCTTGTGCTGTCGCAACTGTGTTCTCCCTGCTGGGT
GGAAGCTCGGCCCTTCTGTGCGCACCACCGCCTGAAAGGCAGGTTTCAGAGGGACCGCAGG
AACATCCGCCCAACATCATCTGGTGTGACGGACGACCAGGATGTGGAGCTGGGTTCC
ATGCAGGTGATGAACAAGACCCGGCGCATCATGGAGCAGGGCGGGGCGCACTTCATCAAC
GCCTTCGTGACCACCCCATGTGCTGCCCTCACGCTCCTCCATCCTCACCGCAAGTAC
GTCCACAACCACAACACCTACACCAACAATGAGAAGTGTCTCCGCCCCTCGGCAGGCA
CAGCACGAGAGCCGACCTTTGCCGTGTACCTCAATAGCACTGGTACCAGGACAGCTTTC
TTCGGGAAGTATCTTAATGAATACAACGGCTCCTACGTGCCACCCGGCTGGAAGGAGTGG
GTCGGACTCCTTAAAACTCCCGCTTTTATAACTACACGCTGTGTCGGAACGGGGTGAAA
GAGAAGCAGGCTCCGACTACTCCAAGGATTACCTCACAGACCTCATACCAATGACAGC
GTGAGCTTCTCCGCACGTCCAAGAAGATGTACCCGCACAGGCCAGTCTCATGGTCATC
AGCCATGCAGCCCCACGGCCCTGAGGATTCAGCCCCACAATATTCACGCCTTCTCCA
AACGCATCTCAGCACATCAGCCGAGCTACAACACTACGCGCCAACCCGGCAAACACTGG
ATCATGCGCTACACGGGGCCCATGAAGCCCATCCACATGGAATTACCAACATGTCCAG
CGGAAGCGCTTGACAGACCTCATGTGCGGTGGACGACTCCATGGAGACGATTTACAACATG
CTGTTGAGACGGGCGAGCTGGACAACACGTACATCGTATACACCCGCGACCACGGTTAC
CACATCGGCCAGTTTGGCCTGGTGAAGGGAAATCCATGCCATATGAGTTTGACATCAGG
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CTCAACATTGACCTGGCCCCACCATCTGGACATTGCAGGCCTGGACATACCTGCGGAT
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GATGTCTCAACCAGCTACACGTACAGCTCATGGAGCTGAGGAGCTGCAAGGGTTACAAG
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CAGTTTCAGCGTCAAGAGTGGCCAGAAATGAAGAGACCTTCTTCCAATCACTGGGACAA
CTGTGGGAAGGCTGGGAAGGTAA

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Clone variation with respect to NM_198596.2
 291 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_198596 unedited
 NGTCAGATTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACCAGAGACGCAACT
 GAGACTCCCGCATCCCAAAAAAGCACCAGATCAGCAAAAAAGAAGATGGGCCCCCGA
 GCCTCGTGTGTGCTTGTGTCCGCAACTGTGTTCTCCCTGCTGGGTGGAAGCTCGGCCT
 TCCTGTGCGCACCACCGCTGAAAGGCAGTTTCAGAGGGACCGCAGGAACATCCGCCCA
 ACATCATCCTGGTGTGACGGACGACCAGGATGTGGAGCTGGGTCCATGCAGGTGATGA
 ACAAGACCCGGCGCATCATGGAGCAGGGCGGGCGCACTTCATCAACGCCTTCGTGACCA
 CACCCATGTGCTGCCCTCAGCTCCTCCATCCTCACCGCAAGTACGTCCACAACCACA
 ACACCTACACCAACAATGAGAACTGCTCCTCGCCCTCCTGGCAGGCACAGCACGAGAGCC
 GCACCTTTGCCGTGTACCTCAATAGCACTGGCTACCGGACAGCTTTCTTCGGAAGTATC
 TTAATGAATACAACGGCTCCTACGTGCCACCCGGCTGGAAGGAGTGGTTCGGACTCCTTA
 AAAACTCCCGCTTTTATAACTACACGCTGTGTCGGAACGGNGTAAAAGAGAAGCACGGCT
 CCGACTACTCCAAGGATTACCTCACAGACCTCATACCAATGACAGCGTGAGCTTCTTCC
 GCAGTCCAAGAAGATGTACCCGCACAGGCCAGTCTCATGGTCATCAGCCATGCAGCCC
 CCCACGGCCCTGAGATCAGCCCCACATATCACGCCTCTTCCAACGCATCTCACACTCAG
 CCGAGCTACACTACGCGCCAACCGGACAACACTGNATCATGCGCTACACGGNGCCCATG
 AAGCCCATCCACTGGNAATCACCACATGCTCAGCGAAGCGCTTGACAGACCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_198596 unedited
 CATTTGGACCGCGCCGATTCTANGATCGATTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTT
 TACTACTGGCCACAGAGCGTTTATTGACACCACCACTCCTGAAAATTGGGATTTCTTATTA
 GGTTCCTTAAAAGTTCCCATGTTGATTACATGTAATAGTCACATATATACAATGAAGG
 CAGTTTCTTCAAAGGCAACCAGGTTTATAGTGCTAGGTAATGTCATCTCTTTTGTGCT
 ACTGACTCATTGTCAAACGTCTCTGCACTGTTTTCAGCCTCTCCACGTTGCCTCTGCTCT
 GCTTCTTAGTTCTTCTTTGTGACAAAACAAAAGAATAAGAGGATTTAGAACAGGACTGC
 TTTTCCCCTATGATTTAAAAATTCCAATGACTTTCGCCCTTGGGAGAAATTTCCAAGGAA
 ATCTCTCTCGCTCGCTCTCTCCGTTTTCTTTGTGAGCTTCTGGGGGAGGGTTAGTGGTG
 ACTTTTTGATACGAAAAAATGCATTTTGTGCAGCTGGTGAGGTATAATCCAAAGCAAAAG
 CAGGGGCAAAAATGGACTTCTGAAGTTATCTCTGCTCCTGCTGGTTATCCTCCAGAATC
 TGTCATGTTGACTGAAAGTGCCTGCTTGTCTTCTCAGGCCTCCTGGCCAATAGCACAGGT
 CTGCTGGAATCACCCACATGGTTTTTTCATTGCCTGTGCAGTCAGGTGATGCCTCTATGT
 TTTTGGAGGTCCACCTCTGTTGTTTTCTTAACTTTCCACCCTTCCCAAGTTTGTCCAAT
 GATTTGGAAGAAAGTCCCTTCATTTCTGCCATTTCAACGCCTGAAACTGCCTGATTGCT
 CAAAATCTCTCCATCTTAAATCCCAGGCCATGGTTCNAGTCCGGGGTTACACTG

Restriction Sites:

NotI-NotI

ACCN:

NM_198596

Insert Size:

4000 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
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.
RefSeq:	NM_198596.1 , NP_940998.1
RefSeq Size:	4239 bp
RefSeq ORF:	2559 bp
Locus ID:	55959
UniProt ID:	Q8IWU5
Cytogenetics:	20q13.12
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	<p>Heparan sulfate proteoglycans (HSPGs) act as coreceptors for numerous heparin-binding growth factors and cytokines and are involved in cell signaling. Heparan sulfate 6-O-endosulfatases, such as SULF2, selectively remove 6-O-sulfate groups from heparan sulfate. This activity modulates the effects of heparan sulfate by altering binding sites for signaling molecules (Dai et al., 2005 [PubMed 16192265]).[supplied by OMIM, Mar 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and includes an alternate in-frame splice site in the 3' coding region, compared to variant 1, resulting in an isoform (b) that is shorter than isoform a.</p>