

Product datasheet for **SC111204**

Sulfatase 1 (SULF1) (NM_015170) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sulfatase 1 (SULF1) (NM_015170) Human Untagged Clone
Tag:	Tag Free
Symbol:	Sulfatase 1
Synonyms:	SULF-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_015170, the custom clone sequence may differ by one or more nucleotides

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ATGAAGTATTCTTGCTGTGCTCTGGTTTTGGCTGTCCTGGGCACAGAATTGCTGGGAAGCCTCTGTTCTGA
CTGTCAGATCCCCGAGGTTTCAGAGGACGGATACAGCAGGAACGAAAAACATCCGACCCAACATTATTCT
TGTGCTTACCGATGATCAAGATGTGGAGCTGGGTCCCTGCAAGTCATGAACAAAACGAGAAAGATTATG
GAACATGGGGGGGCCACCTTCATCAATGCCTTTGTGACTACACCCATGTGCTGCCCGTCACGGTCCCTCCA
TGCTCACCGGAAGTATGTGCACAATCACAATGTCTACACCAACAAACGAGAACTGCTCTTCCCCCTCGTG
GCAGGCCATGCATGAGCCTCGGACTTTTGTGTATATCTTAACAACACTGGCTACAGAACAGCCTTTTTT
GGAAAATACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGAGAATGGCTTGGATTAATCA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015170 unedited
 TAGATTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGGGAGACGGAGA
 CATTTTGTGAGTTTGTCAACATTGGACCAATACAATGAAGTATTCTTGCTGTGCTCTGG
 TTTTGGCTGTCTGGGCACAGAATTGCTGGGAAGCCTCTGTTGACTGTCAGATCCCCGA
 GGTTTCAGAGGACGGATACAGCAGGAACGAAAAACATCCGACCAACATTATTCTGTGC
 TTACCGATGATCAAGATGTGGAGCTGGGGTCCCTGCAAGTCATGAACAAAACGAGAAAGA
 TTATGGAACATGGGGGGGCCACCTTCATCAATGCCTTTGTGACTACACCCATGTGCTGCC
 CGTCACGGTCCTCCATGCTCACCAGGAAGTATGTGCACAATCACAATGCTACACCAACA
 ACGAGAAGTCTCTTCCCTCTGTCAGGCCATGCATGAGCCTCGGACTTTTGTGTAT
 ATCTTAACAACACTGGCTACAGAACAGCCTTTTTTGGAAAATACCTCAATGAATATAATG
 GCAGCTACATCCCCCTGNGTGGCGAGAATGGCTTGGATTAATCAAGAATTCTCGCTTCT
 ATAATTACACTGTTTGTGCAATGGCATCAAAGAAAAGCATGGATTTGATTATGCAAAGG
 ACTACTTCACAGACTTAATCACTAACGAGAGCATTAACTTCAAAATGTCTAAGAGAA
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 ACTCAGCCCCACAGTTTTCTAACTGTACCCCATGCTTTCCACACATAACTCCTAGTTA
 TAACTATGCACCAAAATATGGGATAAACCTTGGNATTATGCAGTACACAGGGACCAATGCT
 GCCCATCCACATGGANATTTACCAACATTCTACAGGGCAAAAGGCTCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015170 unedited
 ATCTTGNACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGTACTTA
 TTTATTTATTTTACCACCAACATTATTAGCCATGCCTTTCTGCTAATCGATTTTAGCAA
 GTCGAGGTAACACATGCAACATTTTCTGGCAAAAGCTTAATGTCAAACAATATGTGAT
 CCATACTGTGTGTCGTCCTTGGGGTTTATTTGACTTTGTCACAATGACAGCCAACAGTG
 AGACTGATAAGCCTGTAAAAATAAAAAATAAGACTAATCAAATAGACATGGCATTTTAA
 TCTCAAAGTGCAAAATCATCTAACTGAAATGACGGCATTGAAAAATCCAGTGTTAA
 AATGAATCAAACTTCATTACGCAGGCAGTGGAAGTGTGTTGAAAGATTACCAGGGTG
 TCAAGTTTTAGACACTCAGAAAGGCACCATTTAGCCATCTTGATTGGATAACATGTATA
 TACTTATGTCCCTACGATATTCAAAGATAATACTGTTTTAGTACAAAACAAACAA
 GCAAAAAATCAAAACCAAGCCAACCCAAATATCCCCAGCCTTTCTTTCTACTCTTGGCAG
 ATAGTAAATTATAACGATGAGTCTCCGTGTGCACACCGCTTGCTCACATGCTCACTAGCT
 TCTACTGCACAAAGGTACCCAGGTAGCTTGAAATGTTGTGGCTGTGAATACCTTTTAT
 AGNNTACAAATAAAAAAGTTAANAAAGAATACTGTGNTNAGGNNTAAGTANCAGTTTCAT
 CTAATCANNAGAGAGTGAANAAGAAGCGCTGCCTTTCTAGNGCTGNGACTTCTCCTTTTC
 GNNGATCTCTTACCTTGTCAACATCTTNCCGCTATGCTGAAATACTTNGNGTTCCTGC
 GTGGCCATGGGGAACATCTGATGAACTGAATNTNCATCGNATN

Restriction Sites:

NotI-NotI

ACCN:

NM_015170

Insert Size:

4000 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:	<u>NM_015170.1, NP_055985.1</u>
RefSeq Size:	5699 bp
RefSeq ORF:	2616 bp
Locus ID:	23213
UniProt ID:	<u>Q8IWU6</u>
Cytogenetics:	8q13.2-q13.3
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes an extracellular heparan sulfate endosulfatase. The encoded enzyme selectively removes 6-O-sulfate groups from heparan sulfate chains of heparan sulfate proteoglycans (HSPGs). The enzyme is secreted through the Golgi and is subsequently localized to the cell surface. The expression of this gene may be down-regulated in several types of cancer, including hepatocellular (HCC), ovarian and breast cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013] Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, and 4 encode the same protein.