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Product datasheet for SC310069

Sulfatase 2 (SULF2) (NM_018837) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sulfatase 2 (SULF2) (NM_018837) Human Untagged Clone
Tag:	Tag Free
Symbol:	SULF2
Synonyms:	HSULF-2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_018837 edited
CAGCAAAAAAAGAAGATGGGCCCCCCGAGCCTCGTGCTGTGCTTGCTGTCCGCAACTGTG
TTCTCCCTGCTGGGTGGAAGCTCGGCCTTCCTGTCGCACCACCGCCTGAAAGGCAGGTTT
CAGAGGGACCGCAGGAACATCCGCCCCAACATCATCCTGGTGCTGACGGACGACCAGGAT
GTGGAGCTGGGTTCCATGCAGGTGATGAACAAGACCCGGCGCATCATGGAGCAGGGCGGG
GCGCACTTCATCAACGCCTTCGTGACCACACCCATGTGCTGCCCCTCACGCTCCTCCATC
CTCACCGGCAAGTACGTCCACAACCACAACACCTACACCAACAATGAGAACTGCTCCTCG
CCCTCCTGGCAGGCACAGCACGAGAGCCGCACCTTTGCCGTGTACCTCAATAGCACTGGC
TACCGGACAGCTTTCTTCGGGAAGTATCTTAATGAATACAACGGCTCCTACGTGCCACCC
GGCTGGAAGGAGTGGGTCGGACTCCTTAAAAACTCCCGCTTTTATAACTACACGCTGTGT
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TCACGCCTCTTCCCAAACGCATCTCAGCACATCACGCCGAGCTACAACTACGCGCCCAAC
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TACTACGGGCAGGGCAGCGAGGCCTGCACCTGTGACAGCGGGGACTACAAGCTCAGCCTG
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GCCGGACGCCGGAAAAAACTCTTCAAGAAGAAGTACAAGGCCAGCTATGTCCGCAGTCGC
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AGGAACTAAGAAGCAGGACAGAGGCAACGTGGAGAGGCTGAAAACAGTGCAGAGACGTTT
GACAATGAGTCAGTAGCACAAAAGAGATGACATTTACCTAGCACTATAAACCCTGGTTGC
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CTTTTAGGGGAACCTAATAAGAAATCCCAATTTTCAGGAGTGGTGGTGTCAATAAACGCT
CTGTGGCCAGTGTAAAAGAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_018837

Insert Size: 3300 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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_018837.2.

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:	NM_018837.2, NP_061325.1
RefSeq Size:	3897 bp
RefSeq ORF:	2613 bp
Locus ID:	55959
UniProt ID:	Q8IWU5
Cytogenetics:	20q13.12
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	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] Transcript Variant: This variant (1) encodes the longer isoform (a). Both variants 1 and 3 encode the same isoform.