

## Product datasheet for **RC226222**

### Sulfatase 1 (SULF1) (NM\_001128205) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sulfatase 1 (SULF1) (NM_001128205) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sulfatase 1
Synonyms:	SULF-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC226222 representing NM\_001128205  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGTATTCTTGCTGTGCTCTGGTTTTGGCTGTCTGGGCACAGAATTGCTGGGAAGCCTCTGTTCGA  
 CTGTCTCAGATCCCCGAGGTTCCAGAGGACGGATACAGCAGGAACGAAAAACATCCGACCCAACATTATTCT  
 TGTGCTTACCGATGATCAAGATGTGGAGCTGGGGTCCCTGCAAGTCATGAACAAAACGAGAAAGATTATG  
 GAACATGGGGGGCCACCTTCATCAATGCCTTTGTGACTACACCCATGTGCTGCCCGTCACGGTCTCCCA  
 TGCTCACCGGGAAGTATGTGCACAATCACAATGTCTACACCAACAACGAGAACTGCTCTTCCCCCTCGT  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226222 representing NM\_001128205  
 Red=Cloning site Green=Tags(s)

MKYSCCALVLAVLGTELLGSLCSTVRSRFRGRIQKERKNIRPNIIILVL TDDQDVELGSLQVMNKTRKIM  
 EHGATFINAFVTTMCCPSRSSMLTGKYVHNHNVYTNNECSPSWQAMHEPRTFAVYLNNTGYRTAFF  
 GKYLNEYNGSYIPPGWREWLGLIKNSRFYNYTVCNRNGIKEKHGFDYAKDYFTDLITNESINYFKMSKRM  
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 PGSIVPQIVLNIDLAPTILDIAGLDTPPDVGKSVLKLDDPEKPGNRFRTNKKAKIWRDTFLVERGKFLR  
 KKEESSKNIQQSNHLPKYERVKELCQQARYQTACEQPQKQWQCIEDTSGKLRIRHKCKGPSDLLTVRQSTR  
 NLYARGFHDKDKECSCRESGYRASRSQRKSQRQFLRNQGT PKYKPRFVHTRQTRLSVEFEGEIYDINLE  
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 ELYQSARAWDKHAYIDKEIEALQDKIKNLREVRGHLKRRKPEECSCSKQSYYNKEKGVKKQEKLSHLH  
 PFKAAAEVDSKQLQFKENRRRKRKERKRRQRKGEESLPLGTCFTHDNNHWQTAPFWNLGSFCACT  
 SNNNTYWLCLRTVNETHNLFCFATGFLEYFDMNTDPYQLTNTVHTVERGILNQLHVQLMELRSCQGYKQ  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

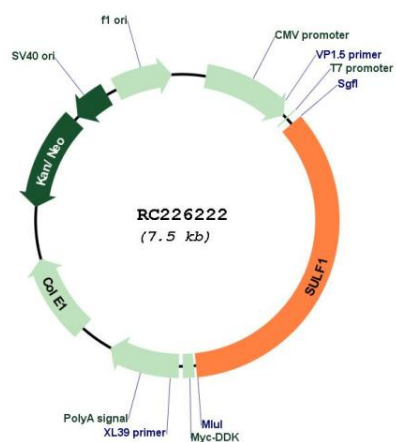
SgfI-MluI

Cloning Scheme:



<b>ACCN:</b>	NM_001128205
<b>ORF Size:</b>	2613 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001128205.2</a>
<b>RefSeq ORF:</b>	2616 bp
<b>Locus ID:</b>	23213
<b>UniProt ID:</b>	<a href="#">Q8IWU6</a>
<b>Cytogenetics:</b>	8q13.2-q13.3
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	100.8 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC226222