

## Product datasheet for **RR203545**

### Sdf4 (NM\_130412) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sdf4 (NM_130412) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sdf4
Synonyms:	MGC93237
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR203545 representing NM_130412 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGACTTCGCGGGCGCCAACTGCGCTCCCAGACCCGGCGTATCAGAAAGCCGGGGAGTCCCGTGGTCT  
GGCTGGCGGCAATGACGTCCAGGCAGAGGTCCCTCTGTGGTCTGGCTGCTCATGGCCTCTGGTTCTTGGG  
CCTTGTCTTCTGATGGATGCAACTGCTAGACCTGCCAACCCTCATTTTCTCGGAAAGAGCAGCCAAC  
AGGGATGAAAATGAGATCATACCCAGACCCTTGAATGGGGTGAAGCTGGAGATGGATGGACACCTCA  
ATAAGGACTTCCATCAGGAGTTTTCTGGGAAAGGACATGGATGGGTTTATGAGGACTCAGAGCCACG  
GAGAAGCAGGAGGAAGCTAATGGTCATCTTTCCAAGGTAGATGTGAACACTGACCGGAGGATCAGCGCT  
AAGGAGATGCAGCACTGGATTATGGAGAAAACAGCAGAGCACTCCAGGAGGCTGTCAAGGAGAACAAC  
TACTTTCAGGGCTGTGGACCCGATGGTATGGCCATGTGTCTGGATGAATAAAAGTGAAGTTTTT  
GGCAAGCAAAGGCCACAATGAAAGGGAGATTGCCGATGCCATCAAGAATCAGGAGAGCTCAAAGTGGAT  
GAGGAGACACAGGAAGTCCTTGGAACTCAGAGATCGCTGGTATCAGGCAGACAATCCTCCTGCAGACC  
TGCTGCTGACTGAGGACGAGTTCCTGTCTTCCCTCACCTGAGCAGCCGGGGCATGCTCAAGTTCAT  
GGTCAAAGAGATCGTTCGGGACTTGGACCAGGATGGTGATAAGCAGTTGTCTCTGCCTGAGTTCATCTCT  
CTGCCTGTGGTACTGTTGAGAACCAGCAAGGCCAAGACATTGACGACAACCTGGGTGAAAGACAGGAAGA  
AAGAGTTTGGGAACTGATTGATTCTAACCATGATGGGATTGTGACCATGGAGGAGTTGGGAACTACAT  
GGACCCCATGAATGAATACAATGCCCTCAATGAAGCAAAACAGATGATTGCCATTGCTGATGAGAACCAG  
AATCACCATCTGGAGCCTGAGGAGATCCTCAAGTACAGTGAGTCTTACGCGGCAGCAAGCTGATGGACT  
ATGCCCGCAATGTGCATGAAGAGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR203545 representing NM\_130412  
Red=Cloning site Green=Tags(s)

MTSRAPNCAPQTRRIRKPGSPVVWLAAMTSRQSLCGLAAHGLWFLGLVLLMDATARPANHSFSRERAAN  
 RDENEIIPDHLNGVKLEMDGHLNKDFHQEVFLGKMDMGFDEDESEPRRSRRKLMVIFSKVDVNTDRRISA  
 KEMQHWIMEKTAEHFQEAVKENLHFRAVDPDGDGHVSWDEYKVKFLASKGHNEREIAIDAIKNHEELKVD  
 EETQEVLGNLDRWYQADNPPADLLLTEDEFLSFLHPEHSRGMKFMVKEIVRDLQDGDQLSLPEFIS  
 LPVGTVENQQGDIDDNWVKDRKKEFEELIDSNHDGIVTMEELNYMDPMNEYNALNEAKQMIAIADENQ  
 NHHLEPEEILKYSEFFTGSKLMDYARNVHEEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

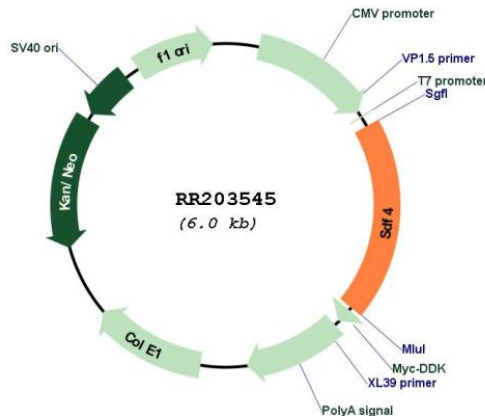
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_130412

<b>ORF Size:</b>	1146 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_130412.2</a> , <a href="#">NP_569096.2</a>
<b>RefSeq Size:</b>	1455 bp
<b>RefSeq ORF:</b>	1149 bp
<b>Locus ID:</b>	155173
<b>UniProt ID:</b>	<a href="#">Q91ZS3</a>
<b>Cytogenetics:</b>	5q36
<b>MW:</b>	44.3 kDa
<b>Gene Summary:</b>	mRNA expression increases in response to ethanol [RGD, Feb 2006]