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Product datasheet for RC200939

SDF2 (NM_006923) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SDF2 (NM_006923) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SDF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC200939 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGTAGTACCTCTGCTGTTGTTGGGGGGTTTGTGGAGCGCTGTGGGAGCGTCCAGCCTGGGTGTCG
TTACTTGCGGCTCCGTGGTGAAGCTACTCAATACGCGCCACAACGTCCGACTGCACTCACACGACGTGCG
CTATGGGTCAGGTAGTGGGCAGCAGTCAGTGACAGGTGTAACCTCTGTGGATGACAGCAACAGTTACTGG
AGGATACGGGGGAAGAGTGCCACAGTGTGTGAGAGGGGAACCCCCATCAAGTGTGGCCAGCCCATCCGGC
TGACACATGTCAACACTGGCCGAAACCTCCATAGTCACCACTTCACTTCACCTCTTTCTGGAAACCAGGA
AGTGAGTGCTTTTGGTGAGGAAGGTGAAGGTGATTATCTGGATGACTGGACAGTGCTCTGTAATGGACCC
TACTGGGTGAGAGATGGTGAGGTGCGGTTCAAACACTCTTCCACTGAGGTACTGCTGTCTGTCACAGGAG
AACAATATGGTCGACCTATCAGTGGGCAAAAAGAGGTGCATGGCATGGCCCAGCCAAGTCAGAACAACTA
CTGGAAAGCCATGGAAGGCATCTTCATGAAGCCCAGTGAGTTGTTGAAGGCAGAAGCCCACCATGCAGAG
CTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200939 protein sequence
Red=Cloning site Green=Tags(s)

MAVVPLLLLGGLWSAVGASSLGVVTCGSVVKLLNTRHNVRLHSHDVRYGSGSGQQSVTGVTSVDDSNSYW
RIRGKSATVCERGTPIKCGQPIRLTHVNTGRNLHSHHFTSPLSGNQEVSAFGEEGEGDYLDDWTVLCNGP
YWVRDGEVRFKHSSTEVLLSVTGEQYGRPISGQKEVHGMAQPSQNNYWKAMEGIFMKPSELLKAEAHHAE
L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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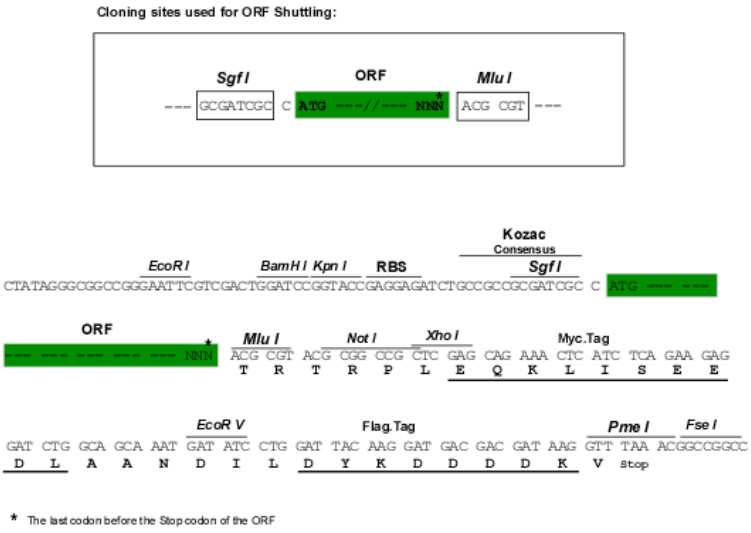
Chromatograms: https://cdn.origene.com/chromatograms/mk6386_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006923

ORF Size: 633 bp

OTI Disclaimer: 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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

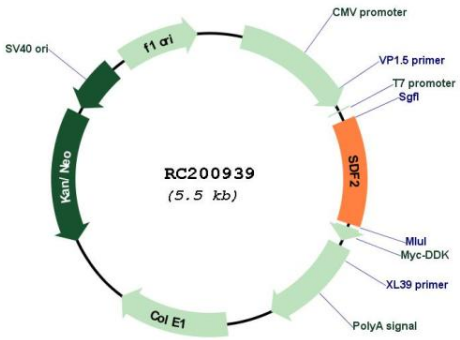
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_006923.4

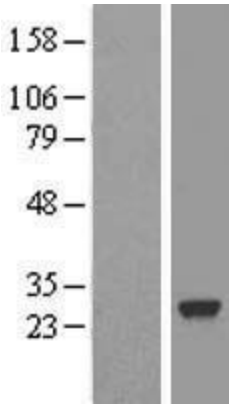
RefSeq Size: 1565 bp

RefSeq ORF:	636 bp
Locus ID:	6388
UniProt ID:	Q99470
Cytogenetics:	17q11.2
Domains:	MIR
Protein Families:	Secreted Protein
MW:	23 kDa
Gene Summary:	The protein encoded by this gene is believed to be a secretory protein. It has regions of similarity to hydrophilic segments of yeast mannosyltransferases. Its expression is ubiquitous and the gene appears to be relatively conserved among mammals. Alternate splicing results in both coding and non-coding variants. A pseudogene of this gene is located on chromosome 15. [provided by RefSeq, Dec 2011]

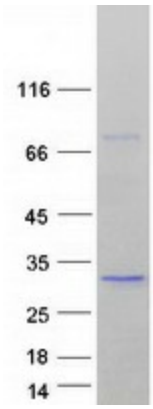
Product images:



Circular map for RC200939



Western blot validation of overexpression lysate (Cat# [LY416324]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200939 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SDF2 protein (Cat# [TP300939]). The protein was produced from HEK293T cells transfected with SDF2 cDNA clone (Cat# RC200939) using MegaTran 2.0 (Cat# [TT210002]).