

Product datasheet for MR205523

Sdf4 (NM_011341) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sdf4 (NM_011341) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sdf4
Synonyms:	Cab4; Cab45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205523 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCTGGCTGGTGGCAATGACGCCAGGCAGAGTTCCTCTGTGGTCTAGCTGCTCATGGCCTCTGGT
TCTTGGGCCTTGTCTTCTGATGGATGCAACCGCTAGACCTGCCAACCACTCATCTACTCGGAAAGAGC
GGCTAACAGGGAGGAAAATGAGATCATGCCCCAGACCACCTGAATGGGGTGAAGCTGGAGATGGATGGA
CACCTCAACAAGGACTTCCATCAGGAGGTTTTCTGGGAAAGGACATGGATGGGTTTGTGAAGACTCAG
AGCCACGGAGAAGCCGGAGGAAGCTGATGGTCATCTTTCCAAGGTAGACGTGAACACTGACCGGAGGAT
CAGCGCTAAGGAGATGCAGCACTGGATTATGGAGAAAACAGCAGAGCACTTCCAGGAGGCCGTCAAGGAA
AACAACTGCACTTCAGGGCTGTGGACCCTGACGGTGACGGCCATGTTTCTGGGATGAATATAAAGTGA
AGTTTTGGCAAGCAAAGGCCACAATGAAAGGGAGATTGCTGAAGCCATCAAGAACCATGAGGAGCTCAA
AGTGGATGAGGAGACACAGGAAGTCCTTGGGAACCTCAGAGACCGATGGTATCAGGCAGACAATCCTCCT
GCAGACCTGCTGCTGACTGAGGACGAGTTCCTTTCATTCTTACCCTGAGCACAGCCGGGGCATGCTCA
AGTTTATGGTCAAGGAGATCTTTCGGGACTTGGATCAGGATGGTGATAAGCAGTTATCTCTGCCCGATT
CATCTCTCTGCCTGTGGTACTGTTGAGAACCAACAAGGCCAAGCATTGATGACAACTGGGTGAAAGAC
AGAAAGAAGGAGTTTGGGAAGTATTGACTTAACCATGATGGGATTGTGACCATGGAGGAGCTAGAGA
ACTACATGGACCCCATGAATGAATACAATGCCCTCAACGAAGCCAAACAGATGATTGCCATTGCTGATGA
GAACCAGAACCACCACCTGGAGCCCAGGAGATCCTCAAGTACAGTGAGTTCTTACCAGGAGCAAGCTC
ATGGACTATGCCGCAACGTGCATGAAGAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205523 protein sequence
 Red=Cloning site Green=Tags(s)

MVWL VAMTPRQSSL CGLAAHGLWFLGLVLLMDATARPANHSSTRERAANREENEIMPPDHLNGVKLEMDG
 HLNKDFHQEVFLGKMDMGFDEDESEPRRSRRKLMVIFSKVDVNTDRRISAKEMQHWIMEKTAEHFQEA
 VKE NKLHFRAYDPDGDGHVSWDEYKVKFLASKGHNREIAEAIKNHEELKVDEETQEVLGNLRDRWYQADNPP
 ADLLLTEDEFLSFLHPEHSRGMKLFMVKEIFRDLDQDGDQKQLSLPEFISLPVGTVENQQQDIDDNWKD
 RKKEFEELIDSNHDGIVTMEELNYMDPMNEYNALNEAKQMIADENQNHLEPEEILKYSEFFTGSKL
 MDYARNVHEEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011341

ORF Size: 1086 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.

RefSeq: [NM_011341.5](#), [NP_035471.1](#)

RefSeq Size: 5174 bp

RefSeq ORF: 1086 bp

Locus ID: 20318

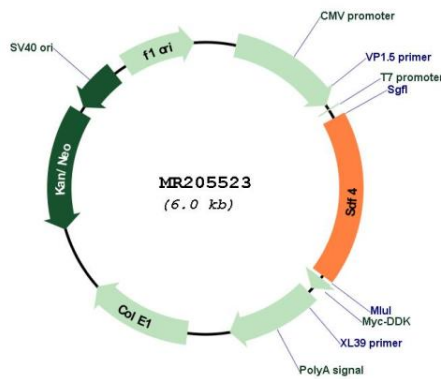
UniProt ID: [Q61112](#)

Cytogenetics: 4 E2

MW: 42.1 kDa

Gene Summary: This gene encodes a member of the CREC family. The encoded protein contains multiple calcium-binding EF-hand motifs. This protein localizes to the Golgi lumen and may be involved in regulating calcium dependent cellular activities. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Product images:



Circular map for MR205523