OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR229488

Sdf4 (NM_001302468) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sdf4 (NM_001302468) 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:

>MR229488 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCTGGCTGGTGGCAATGACGCCCAGGCAGAGTTCCCTCTGTGGTCTAGCTGCTCATGGCCTCTGGT
TCTTGGGCCTTGTCCTTCTGATGGATGCAACCGCTAGACCTGCCAACCACTCATCTACTCGGGAAAGAGC
GGCTAACAGGGAGGAAAATGAGATCATGCCCCCAGACCACCTGAATGGGGTGAAGCTGGAGATGGATGGA
CACCTCAACAAGGACTTCCATCAGGAGGTTTTCCTGGGAAAGGACATGGATGGGTTTGATGAAGACTCAG
AGCCACGGAGAAGCCGGAGGAAGCTGATGGTCATCTTTTCCAAGGTAGACGTGAACACTGACCGGAGGAT
CAGCGCTAAGGAGATGCAGCACTGGATTATGGAGAAAACAGCAGAGCACTTCCAGGAGGCCGTCAAGGAA
AACAAACTGCACTTCAGGGCTGTGGACCCTGACGGTGACGGCCATGTTTCCTGGGATGAATATAAAGTGA
AGTTTTTGGCAAGCAAAGGCCACAATGAAAGGGAGATTGCTGAAGCCATCAAGAACCATGAGGAGCTCAA
AGTGGATGAGGAGACACAGGAAGTCCTTGGGAACCTCAGAGACCGATGGTATCAGGCAGACAATCCTCCT
GCAGACCTGCTGCTGACTGAGGACGAGTTCCTTTCATTCCTTCACCCTGAGCACAGCCGGGGCATGCTCA
AGTTCATGGTCAAGGAGATCTTTCGGGACTTGGATCAGGATGGTGATAAGCAGTTATCTCTGCCCGAGTT
CATCTCTCTGCCTGTGGGTACTGTTGAGAACCAACAAGGCCAAGACATTGATGACAACTGGGTGAAAGAC
AGAAAGAAGGAGTTTGAGGAACTGATTGACTCTAACCATGATGGGATTGTGACCATGGAGGAGCTAGAGA
ACTACATGGACCCCATGAATGAATACAATGCCCTCAACGAAGCCAAACAGATGATTGCCATTGCTGATGA
GAACCAGAACCACCACCTGGAGCCCGAGGAGATCCTCAAGTACAGTGAGTTCTTCACCGGCAGCAAGCTC
ATGGACTATGCCCGCAACGTGCATGAAGAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

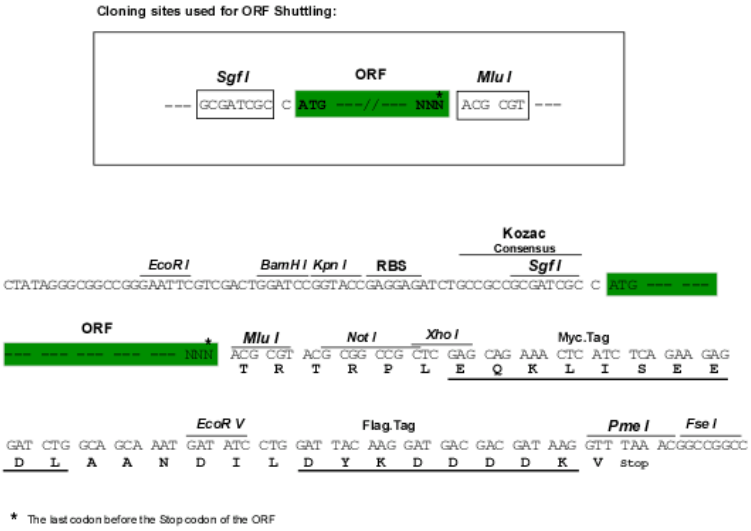
>MR229488 protein sequence
Red=Cloning site Green=Tags(s)

MVWLVAMTPRQSSLCGLAAHGLWFLGLVLLMDATARPANHSSTRERAANREENEIMPPDHLNGVKLEMDG
HLNKDFHQEVFLGKDMDGFDEDSEPRRSRRKLMVIFSKVDVNTDRRISAKEMQHWIMEKTAEHFQEAVKE
NKLHFRAVDPDGDGHVSWDEYKVKFLASKGHNEREIAEAIKNHEELKVDEETQEVLGNLRDRWYQADNPP
ADLLLTEDEFLSFLHPEHSRGMLKFMVKEIFRDLDQDGDKQLSLPEFISLPVGTVENQQGQDIDDNWVKD
RKKEFEELIDSNHDGIVTMEELENYMDPMNEYNALNEAKQMIAIADENQNHHLEPEEILKYSEFFTGSKL
MDYARNVHEEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001302468

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_001302468.1, NP_001289397.1

RefSeq Size: 4996 bp

RefSeq ORF: 1086 bp

Locus ID: 20318

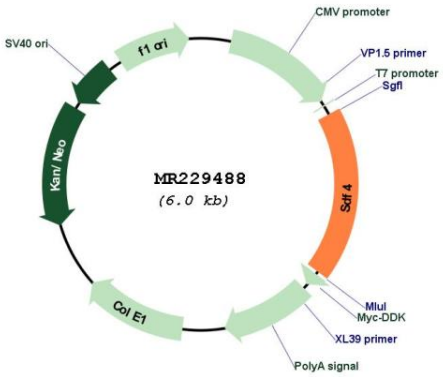
UniProt ID: Q61112

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 MR229488