

Product datasheet for **RC224916**

SH3MD2 (SH3RF1) (NM_020870) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SH3MD2 (SH3RF1) (NM_020870) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SH3MD2
Synonyms:	POSH; RNF142; SH3MD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC224916 representing NM_020870
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGAATCAGCCTTGTGGATCTTTTGGAGTGCCGGTGTGTCTAGAGCGCCTTGATGCTTCTGCGA
 AGGTCTTGCCCTTGCCAGCATACGTTTTGCAAGCGATGTTTGTGGGGATCGTAGGTTCTCGAAATGAACT
 CAGATGTCCCGAGTGCAGGACTCTTGTGGCTCGGGTGTGAGGAGCTTCCAGTAACATCTTGCTGGTC
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 TGACAATGGCCCCCTCGTTTACTTTCCCATCAGATGTTCCCTACCAAGCTGCCCTTGGAACTTTGAATCC
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 CATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224916 representing NM_020870
Red=Cloning site Green=Tags(s)

MDESALLDLLECPVCLERLDASAKVLPQCHTFCRKLLGIVGSRNELRCPECRTLVGSGVEELPSNILLV
RLLDGIKQRPWKPGPGGGSGTNTNALSQSSTVANCSSKDLQSSGGGQPRVQSWSPVVRGIPQLPCA
ALYNYEGKEPGDLKFSKGDIIILRRQVDENWYHGEVNGIHGFPTNFVQIIKPLPQPPQCKALYDFEV
DKEADKCLPFAKDDVLTVIRRVDENWAEGLADKIGIFPISYVEFNAAKQLIEWDKPPVPVGDAGECS
SAAQSSSTAPKHSDTKKNTKKRHSFTSLTMANKSSQASQNRHSMESPPVLISSSNPTAAARISELSGLS
CSAPSQVHIISTGLIVTPPPSSPVTTGPSFTFPDVPYQAAAGLTNPPLPPPPLAATVLASTPPGATAA
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PQPAPLMPGKSADTHAAISISRASAPLACAAAAPLTSPSITSASLEAEPSSGRIVTVLPLGLTPSDSASS
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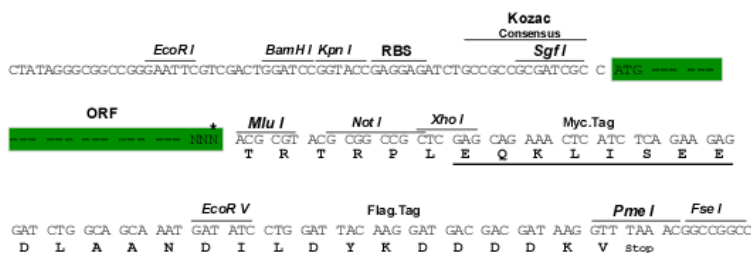
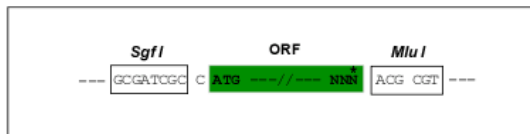
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8119_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

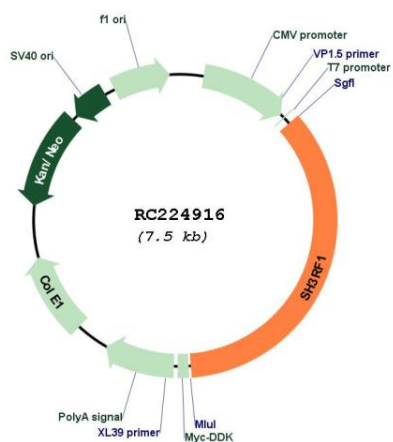


* The last codon before the Stop codon of the ORF

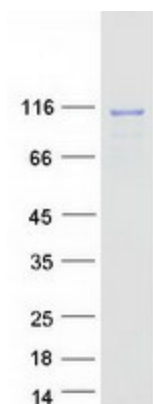
ACCN: NM 020870

ORF Size:	2664 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_020870.4
RefSeq Size:	5265 bp
RefSeq ORF:	2667 bp
Locus ID:	57630
UniProt ID:	Q7Z6J0
Cytogenetics:	4q32.3-q33
MW:	93.6 kDa
Gene Summary:	This gene encodes a protein containing an N-terminus RING-finger, four SH3 domains, and a region implicated in binding of the Rho GTPase Rac. Via the RING-finger, the encoded protein has been shown to function as an ubiquitin-protein ligase involved in protein sorting at the trans-Golgi network. The encoded protein may also act as a scaffold for the c-Jun N-terminal kinase signaling pathway, facilitating the formation of a functional signaling module. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224916



Coomassie blue staining of purified SH3RF1 protein (Cat# [TP324916]). The protein was produced from HEK293T cells transfected with SH3RF1 cDNA clone (Cat# RC224916) using MegaTran 2.0 (Cat# [TT210002]).