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Product datasheet for RC215789

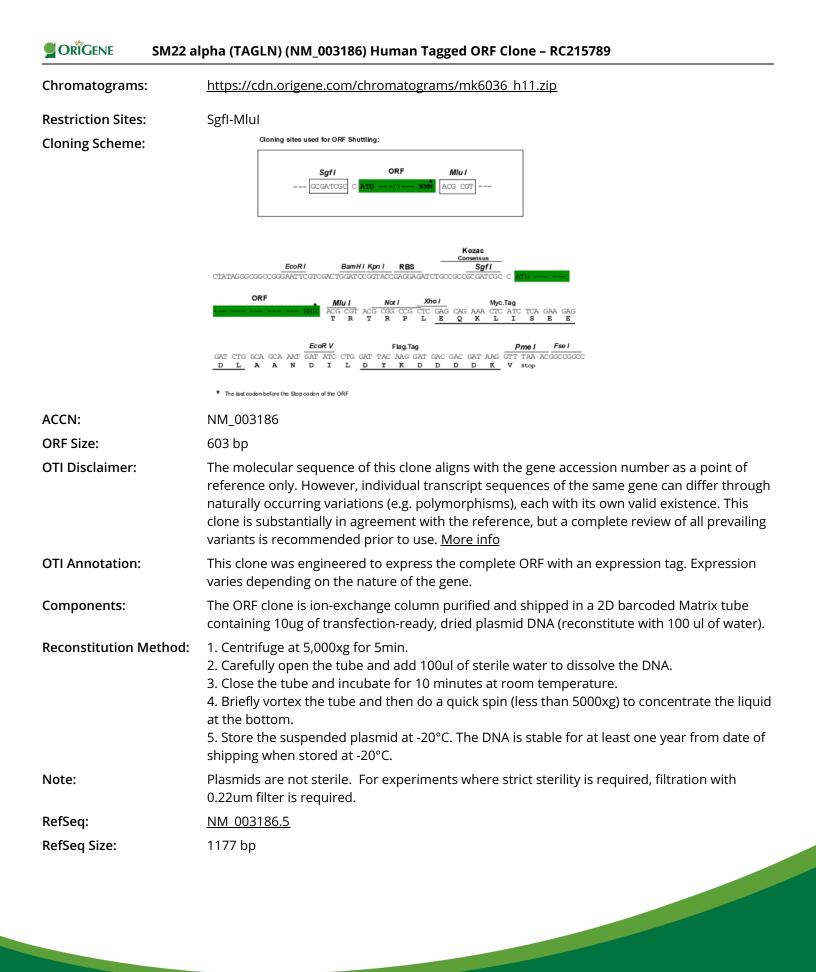
SM22 alpha (TAGLN) (NM_003186) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SM22 alpha (TAGLN) (NM_003186) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SM22 alpha
Synonyms:	SM22; SM22-alpha; SMCC; TAGLN1; WS3-10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC215789 representing NM_003186 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCCAACAAGGGTCCTTCCTATGGCATGAGCCGCGAAGTGCAGTCCAAAATCGAGAAGAAGTATGACG AGGAGCTGGAGGAGCGGCTGGTGGAGTGGA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	<pre>>RC215789 representing NM_003186 Red=Cloning site Green=Tags(s)</pre>
	MANKGPSYGMSREVQSKIEKKYDEELEERLVEWIIVQCGPDVGRPDRGRLGFQVWLKNGVILSKLVNSLY PDGSKPVKVPENPPSMVFKQMEQVAQFLKAAEDYGVIKTDMFQTVDLFEGKDMAAVQRTLMALGSLAVTK NDGHYRGDPNWFMKKAQEHKREFTESQLQEGKHVIGLQMGSNRGASQAGMTGYGRPRQIIS
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



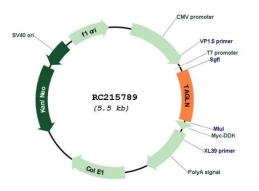
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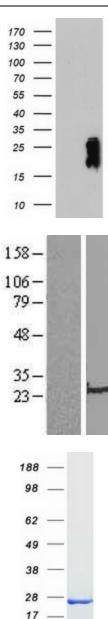
	SM22 alpha (TAGLN) (NM_003186) Human Tagged ORF Clone – RC215789
RefSeq ORF:	606 bp
Locus ID:	6876
UniProt ID:	<u>Q01995</u>
Cytogenetics:	11q23.3
Domains:	calponin, CH
MW:	22.4 kDa
Gene Summary:	This gene encodes a shape change and transformation sensitive actin-binding protein which belongs to the calponin family. It is ubiquitously expressed in vascular and visceral smooth muscle, and is an early marker of smooth muscle differentiation. The encoded protein is thought to be involved in calcium-independent smooth muscle contraction. It acts as a tumor suppressor, and the loss of its expression is an early event in cell transformation and the development of some tumors, coinciding with cellular plasticity. The encoded protein has a domain architecture consisting of an N-terminal calponin homology (CH) domain and a C- terminal calponin-like (CLIK) domain. Mice with a knockout of the orthologous gene are viable and fertile but their vascular smooth muscle cells exhibit alterations in the distribution of the

actin filament and changes in cytoskeletal organization. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RC215789



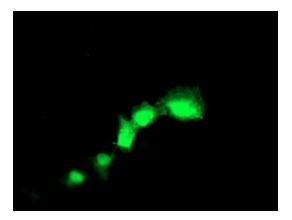
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HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TAGLN (Cat# RC215789, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TAGLN (Cat# [TA503092]). Positive lysates [LY401104] (100ug) and [LC401104] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY401104]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215789 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified TAGLN protein (Cat# [TP315789]). The protein was produced from HEK293T cells transfected with TAGLN cDNA clone (Cat# RC215789) using MegaTran 2.0 (Cat# [TT210002]).





Anti-TAGLN mouse monoclonal antibody ([TA503092]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY TAGLN (RC215789).

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