

Product datasheet for **RC231085**

MADH7 (SMAD7) (NM_001190823) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MADH7 (SMAD7) (NM_001190823) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SMAD7
Synonyms: CRCS3; MADH7; MADH8
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC231085 representing NM_001190823
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTGTGGTTTGTCTTTCATGCTGTTTAGAGCGTGCTTAAAGATGGATCTTGGTGTTTTTATTTGTGTAT
TTATTTCTTCTCTCCCCTTTCAAATCCACAGCAGACTGTCCAGATGCTGTGCCTTCTCCGCTGAAAC
AGGGGGAACGAATTATCTGGCCCTGGGGGCTTTCAGATTCCCAACTTCTTCTGGAGCCTGGGGATCGG
TCACACTGGTGGTGGTGGCATACTGGGAGGAGAAGACGAGAGTGGGAGGCTCTACTGTGTCCAGGAGC
CCTCTCTGGATATCTTCTATGATCTACCTCAGGGGAATGGCTTTTGCCTCGGACAGCTCAATTCGGACAA
CAAGAGTCAGCTGGTGCAGAAGGTGCGGAGCAAAATCGGCTGCGGCATCCAGCTGACGCGGGAGGTGGAT
GGTGTGTGGGTGTACAACCGCAGCAGTTACCCCATCTTCATCAAGTCCGCCACACTGGACAACCCGGACT
CCAGGACGCTGTTGGTACACAAGGTGTTCCCGGTTTCTCCATCAAGGCTTTCGACTACGAGAAGGCGTA
CAGCCTGCAGCGGCCAATGACCACGAGTTTATGCAGCAGCCGTGGACGGGCTTTACCGTGCAGATCAGC
TTTGTGAAGGGCTGGGGCCAGTGCTACACCCGCCAGTTCATCAGCAGCTGCCCGTGGCTAGAGGTCA
TCTTCAACAGCCGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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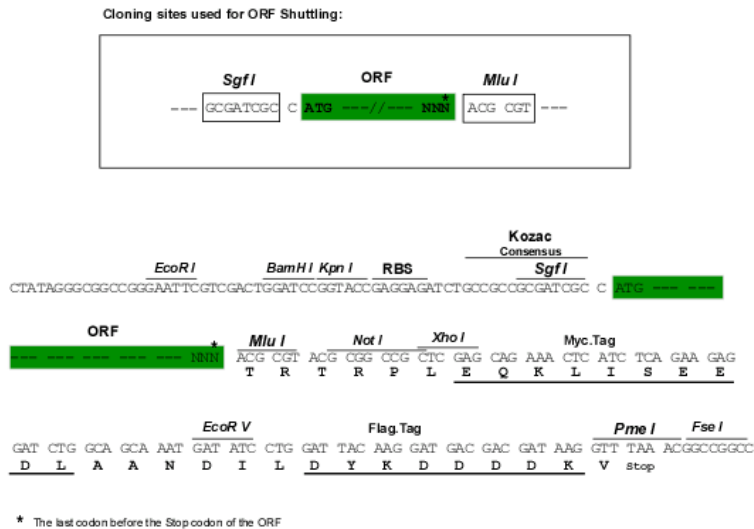
Protein Sequence: >RC231085 representing NM_001190823
 Red=Cloning site Green=Tags(s)

MCGLSFMLFRACLKMDLGVFICVFISFSPLFKSTADCPDPAVPSSAETGGTNYLAPGGLSDSQLLLEPGDR
 SHWCVVAYWEEKTRVGRLYCVQEPSLDIFYDLPQGNFCLGQLNSDNKSQLVQKVRSKIGCGIQLTREVD
 GVWVYNRSSYPFIK SATLDNPDSRTLLVHKVFPGF SIKAFDYEKAYSLQRPNDHEFMQQPWTGFTVQIS
 FVKGWGQCYTRQFISSPCWLEVIFNSR

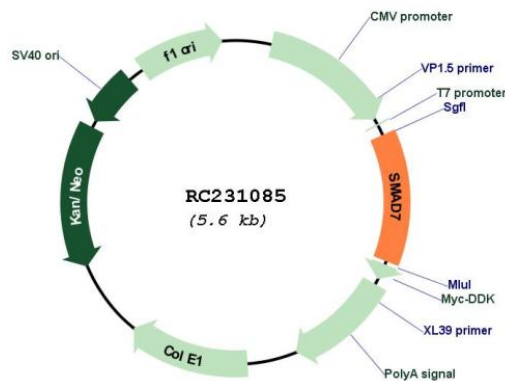
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001190823
ORF Size: 714 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:	<ol style="list-style-type: none">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_001190823.1 , NP_001177752.1
RefSeq ORF:	717 bp
Locus ID:	4092
UniProt ID:	O15105
Cytogenetics:	18q21.1
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	TGF-beta signaling pathway
MW:	27.4 kDa
Gene Summary:	The protein encoded by this gene is a nuclear protein that binds the E3 ubiquitin ligase SMURF2. Upon binding, this complex translocates to the cytoplasm, where it interacts with TGF-beta receptor type-1 (TGFBR1), leading to the degradation of both the encoded protein and TGFBR1. Expression of this gene is induced by TGFBR1. Variations in this gene are a cause of susceptibility to colorectal cancer type 3 (CRCS3). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]