

Product datasheet for **RG231085**

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:	TurboGFP
Symbol:	SMAD7
Synonyms:	CRCS3; MADH7; MADH8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231085 representing NM_001190823 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTGGTTTGTCTTTCATGCTGTTTAGAGCGTGCTTAAAGATGGATCTTGGTGTTTTTATTTGTGTAT
TTATTTCTTCTCTCCCTTTTCAAATCCACAGCAGACTGTCCAGATGCTGTGCCTTCTCCGCTGAAAC
AGGGGGAACGAATTATCTGGCCCTGGGGGCTTTCAGATTCCCAACTTCTTCTGGAGCCTGGGATCGG
TCACACTGGTGCCTGGTGCATACTGGGAGGAGAAGACGAGAGTGGGAGGCTCTACTGTGTCCAGGAGC
CCTCTCTGGATATCTTCTATGATCTACCTCAGGGGAATGGCTTTTGCCTCGGACAGCTCAATTCGGACAA
CAAGAGTCAGCTGGTGCAGAAGGTGCGGAGCAAATCGGCTGCGGCATCCAGCTGACGCGGAGGTGGAT
GGTGTGTGGGTGTACAACCGCAGCAGTTACCCCATCTTCAATCAAGTCCGCCACACTGGACAACCCGGACT
CCAGGACGCTGTTGGTACACAAGGTGTTCCCGGTTTCTCCATCAAGGCTTTCGACTACGAGAAGGCGTA
CAGCCTGCAGCGGCCAATGACCACGAGTTTATGCAGCAGCCGTGGACGGGCTTACCCTGCAGATCAGC
TTTGTGAAGGGCTGGGGCCAGTGCTACACCCGCCAGTTCATCAGCAGCTGCCCGTGTGGCTAGAGGTCA
TCTTCAACAGCCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231085 representing NM_001190823
Red=Cloning site Green=Tags(s)

MCGLSFMLFRACLKMDLGVFICVFISFSPLFKSTADCPDAVPSSAETGGTNYLAPGGLSDSQLLLEPGDR
 SHWCVVAYWEEKTRVGRLYCVQEPSLDIFYDLPQGNFCLGQLNSDNKSQLVQKVRISKIGCGIQLTREVD
 GVWVYNRSSYPFIK SATLDNPDSRTLLVHKVFPGF SIKAFDYEKAYSLQRPNDHEFMQQPWTGFTVQIS
 FVKGWGQCYTRQFISSPCWLEVIFNSR

TRTRPLE - GFP Tag - V

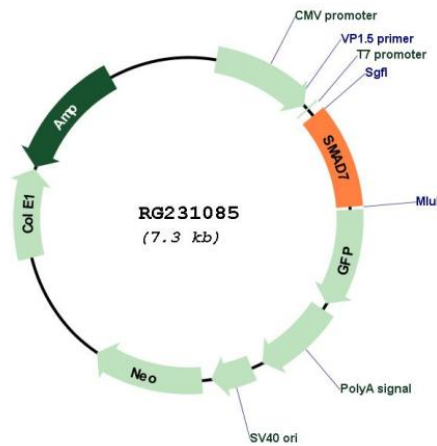
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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 Size:	2386 bp
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
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]