

Product datasheet for **RG230830**

MADH7 (SMAD7) (NM_001190821) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MADH7 (SMAD7) (NM_001190821) 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:	>RG230830 representing NM_001190821 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCAGGACCAACGATCTGCGCTCGTCCGGCTCTCTGGAGGAGCCGTGCGCCCGCGCGGAGGACG
AGGAGGAGGGCGCAGGGGAGGTGGAGGAGGAGCGAGCTGCGGGGAGAAGGGCGACGGACAGCCGAGC
GCATGGGGCCGGTGGCGCGGCCCGGGCAGGGCTGGATGCTGCCTGGCAAGGCGGTGCGAGGTGCCAAA
GGTCACCACCATCCCACCCGACCCGCGGGCGCGGGCGGGCGCGCCGAGGCGGATCTGAAGG
CGCTCACGCACTCGGTGCTCAAGAACTGAAGGAGCGGCAGCTGGAGCTGCTGCTCCAGGCCGTGGAGTC
CCGCGGGCGGACGCGCACCGCTGCTCCTGCTGCCCGGGCCCTGGACTGCAGGCTGGGCCCGGGGGCG
CCCGCGGGCGCGCAGCCTGCGCAGCCGCCCTCGTCTACTCGCTCCCCCTCCTGCTGTGCAAAGTGTTC
GGTGGCCGGATCTCAGGCATTCTCGGAAGTCAAGAGGCTGTGTTGCTGTGAATCTTACGGGAAGATCAA
CCCCGAGCTGGTGTGCTGCAACCCCATCACCTTAGCCGACTCTGCGAACTAGAGTCTCCCCCTCCT
TACTCCAGATACCCGATGGATTTCTCAAACCAACTGCAGACTGTCCAGATGCTGTGCCCTCCTCCGCTG
AAACAGGGGAACGAATTATCTGGCCCCGGGGGCTTTCAGATCCCACTTCTTGGAGCCTGGGGA
TCGGTACACTGGTGGTGGTGGCATACTGGGAGGAGAAGACGAGAGTGGGAGGCTCTACTGTGTCCAG
GAGCCCTCTGGATATCTTCTATGATCTACCTCAGGGGAATGGCTTTTGCTCGGACAGCTCAATTCGG
ACAACAAGAGTCAGCTGGTGCAGAAGGTGCGGAGCAAAATCGGCTGCGGCATCCAGCTGACGCGGGAGGT
GGATGGTGTGGTGTACAACCGCAGCAGTTACCCCATCTTCATCAAGTCCGCCACACTGGACAACCCG
GACTCCAGGACGCTGTTGGTACACAAGGTGTTCCCGGTTTCTCCATCAAGGCTTTCGACTACGAGAAGG
CGTACAGCCTGCAGCGGCCAATGACCACGAGTTTATGCAGCAGCCGTGGACGGGCTTACCGTGCAGAT
CAGCTTTGTGAAGGCTGGGGCCAGTGCTACACCCGCGAGTTTCATCAGCAGCTGCCCGTGTGGCTAGAG
GTCATCTCAACAGCCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230830 representing NM_001190821
 Red=Cloning site Green=Tags(s)

MFRTKRSALVRRLLWRSRAPGGEDEEEAGGGGGGGELRGEGATDSRAHGAGGGGPGRAGCCLGKAVRGAK
 GHHHPHPPAAGAGAAGGAEDLKALTHSVLKKLKERQLELLLQAVESRGGTRTACLLLPGRLCDRLGPGA
 PAGAQAQPPSSYSYSLPLLLCKVFRWDLRHSSEVKRLCCCESYGKINPELVCCNPHHLSRLCELESPPPP
 YSRYPMDFLKPTADCPDVPSSAETGGTNYLAPGGLSDSQLLLEPGDRSHWCVVAYWEEKTRVGRLYCVQ
 EPSLDIFYDLPQNGFCLGQLNSDNKSQLVQKVRKIGCGIQLTREVDGVWVYNRSSYPIFKSATLDNP
 DSRTLLVHKVFPGFSIKAFDYEKAYSLQRPNDHEFMQQPWTGFTVQISFVKGWGQCQYTRQFISSPCWLE
 VIFNSR

TRTRPLE - GFP Tag - V

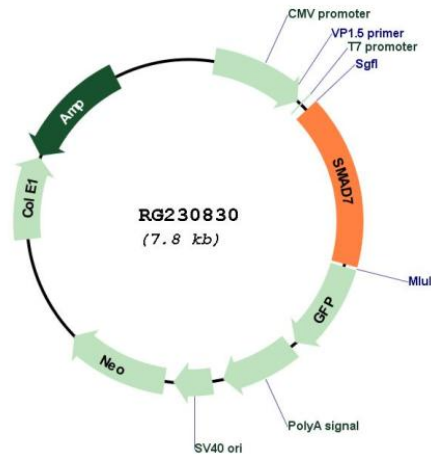
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001190821

ORF Size:	1275 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_001190821.1 , NP_001177750.1
RefSeq Size:	3085 bp
RefSeq ORF:	1278 bp
Locus ID:	4092
UniProt ID:	Q15105
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]