

Product datasheet for **RG210400**

MADH7 (SMAD7) (NM_005904) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MADH7 (SMAD7) (NM_005904) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MADH7
Synonyms: CRCS3; MADH7; MADH8
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210400 representing NM_005904
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTCCAGGACCAACGATCTGCGCTCGTCCGGCTCTCTGGAGGAGCCGTGCGCCCGGGCGGAGGACG
 AGGAGGAGGGCGCAGGGGAGGTGGAGGAGGAGCGAGCTGCGGGGAGAAGGGCGACGGACAGCCGAGC
 GCATGGGGCCGGTGGCGGCGCCCGGGCAGGGCTGGATGCTGCCTGGCAAGGCGGTGCGAGGTGCCAAA
 GGTCAACCACATCCCACCCGACCCGCGGGCGCGGGCGGGCGCCGAGGCGGATCTGAAGG
 CGCTCACGCACTCGGTGCTCAAGAACTGAAGGAGCGGCAGCTGGAGCTGCTGCTCCAGGCCGTGGAGTC
 CCGCGGGCGGACGCGCACCGCTGCTCCTGCTGCCCGGGCCGCTGGACTGCAGGCTGGGCCCGGGGGCG
 CCCGCGGGCGCGCAGCCTGCGCAGCCGCCCTCGTCTACTCGCTCCCCCTCCTGCTGTGCAAAGTGTTC
 GGTGGCCGGATCTCAGGCATTCCTCGGAAGTCAAGAGGCTGTGTTGCTGTGAATCTTACGGGAAGATCAA
 CCCCAGCTGGTGTGCTGCAACCCCAATCACCTTAGCCGACTCTGCGAAGTACAGTCTCCCCCCCCTCT
 TACTCCAGATACCCGATGGATTTCTCAAACCAACTGCAGACTGTCCAGATGCTGTGCCCTTCTCCGCTG
 AACAGGGGAACGAATTATCTGGCCCCGGGGGCTTTCAGATCCCACTTCTTCTGGAGCCTGGGGA
 TCGGTACACTGGTGGTGGTGGCATACTGGGAGGAGAAGACGAGAGTGGGAGGCTCTACTGTGTCCAG
 GAGCCCTCTGGATATCTTCTATGATCTACCTCAGGGGAATGGCTTTTGCTCGGACAGCTCAATTCGG
 ACAACAAGAGTCAGCTGGTGCAGAAGGTGCGGAGCAAAATCGGCTGCGGCATCCAGCTGACGCGGGAGGT
 GGATGGTGTGGTGTACAACCGCAGCAGTTACCCCATCTTCATCAAGTCCGCCACACTGGACAACCCG
 GACTCCAGGACGCTGTTGGTACACAAGGTGTTCCCGGTTTCTCCATCAAGGCTTTCGACTACGAGAAGG
 CGTACAGCCTGCAGCGGCCAATGACCACGAGTTTATGCAGCAGCCGTGGACGGGCTTACCCTGCAGAT
 CAGCTTTGTGAAGGGCTGGGGCCAGTGCTACACCCGCCAGTTCATCAGCAGCTGCCCGTGTGGCTAGAG
 GTCATCTCAACAGCCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210400 representing NM_005904
 Red=Cloning site Green=Tags(s)

MFRTKRSALVRRLLWRSRAPGGDEEEAGGGGGGGELRGEGATDSRAHGAGGGGPGRAGCCLGKAVRGAK
 GHHHPHPAAGAGAAGGAEDLKALTHSVLKKLKERQLELLLQAVESRGGTRTACLLLPGRLCDRLGPGA
 PAGAQAQPPSSYSPLLLLCKVFRWDLRHSSEVKRLCCCESYGKINPELVCCNPHELLSRLCELESPPPP
 YSRYPMDFLKPTADCPDAVPSSAETGGTNYLAPGGLSDSQLLLEPGDRSHWCVVAYWEEKTRVGRLYCVQ
 EPSLDIFYDLPQNGFCLGQLNSDNKSQLVQKVRKIGCGIQLTREVDGVWVYNRSSYPFIKSATLDNP
 DSRTLLVHKVFPGFSIKAFDYEKAYSLQRPNDHEFMQQPWTGFTVQISFVKGWGQCQYTRQFISSPCWLE
 VIFNSR

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_005904

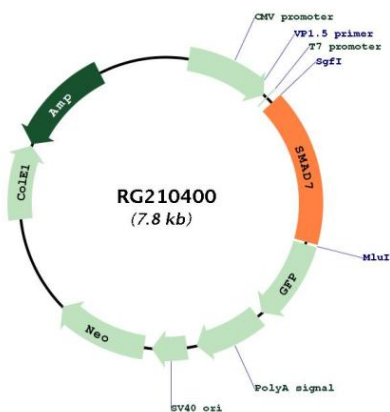
ORF Size: 1278 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_005904.3</u>
RefSeq Size:	3103 bp
RefSeq ORF:	1281 bp
Locus ID:	4092
UniProt ID:	<u>O15105</u>
Cytogenetics:	18q21.1
Domains:	DWB, DWA, MH1
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 (CRC3). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]

Product images:



Circular map for RG210400