

Product datasheet for **SC116437**

MADH7 (SMAD7) (NM_005904) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MADH7 (SMAD7) (NM_005904) Human Untagged Clone
Tag:	Tag Free
Symbol:	MADH7
Synonyms:	CRCS3; MADH7; MADH8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116437 sequence for NM_005904 edited (data generated by NextGen Sequencing)

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ATGTTTCAGGACCAAACGATCTGCGCTCGTCCGGCGTCTCTGGAGGAGCCGTGCGCCCGGCG
GGCGAGGACGAGGAGGAGGGCGCAGGGGAGGTGGAGGAGGAGCGAGCTGCGGGGAGAA
GGGGCGACGACAGCCGAGCGCATGGGGCCGGTGGCGGGCCCGGGCAGGGCTGGATGC
TGCCTGGGCAAGGCGGTGCGAGGTGCCAAAGGTACCACCATCCCCACCCGCCAGCCGCG
GGCGCCGGCGCGGCCGGGGCGCCGAGGCGGATCTGAAGGCGCTCACGCACTCGGTGCTC
AAGAACTGAAGGAGCGGCAGCTGGAGCTGCTGCTCCAGGCCGTGGAGTCCCAGCGGGGG
ACGCGCACCGGTGCCTCCTGCTGCCCGCCGCTGGACTGCAGGCTGGGCCCGGGGGCG
CCCGCCGGCGCGCAGCCTGCGCAGCCGCCCTCGTCTACTCGTCCCCCTCCTGTGTGC
AAAGTGTTCAGGTGGCCGATCTCAGGCATTCTCGGAAGTCAAGAGGCTGTGTTGCTGT
GAATCTTACGGGAAGATCAACCCCGAGCTGGTGTGCTGCAACCCCATCACCTTAGCCGA
CTCTGCGAACTAGAGTCTCCCCCCCCTCTTACTCCAGATACCCGATGGATTTTCTCAA
CCAAGTGCAGACTGTCCAGATGCTGTGCCTTCTCCGCTGAAACAGGGGGAACGAATTAT
CTGGCCCCGGGGGGCTTTCAGATTCCCAACTTCTTCTGGAGCCTGGGGATCGGTACAC
TGGTGCCTGGTGGCATACTGGGAGGAGAAGACGAGAGTGGGGAGGCTCTACTGTGTCAG
GAGCCCTCTCTGGATATCTTCTATGATCTACCTCAGGGGAATGGCTTTTGCTCGGACAG
CTCAATTCGACAACAAGAGTCAAGTGGTGCAGAAGGTGCGGAGCAAAAATCGGCTGCGGC
ATCCAGCTGACCGGGGAGGTGGATGGTGTGTTGGTGTACAACCGCAGAGTTACCCCATC
TTCATCAAGTCCGCCACACTGGACAACCCGGACTCCAGGACGCTGTTGGTACACAAGGTG
TCCCCCGTTTTCTCCATCAAGGCTTTCGACTACGAGAAGGCGTACAGCCTGCAGCGGCC
AATGACCACGAGTTTATGCAGCAGCCGTGGACGGGCTTTACCGTGCAGATCAGCTTTGTG
AAGGGCTGGGGCCAGTGTACACCCGCCAGTTCATCAGCAGCTGCCCGTGTGGCTAGAG
GTCATCTTCAACAGCCGGTAG

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Clone variation with respect to NM_005904.3



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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](#)

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:

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_005904.2](#), [NP_005895.1](#)

RefSeq Size: 3103 bp

RefSeq ORF: 1281 bp

Locus ID: 4092

UniProt ID: [O15105](#)

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.