

## Product datasheet for **TP310400M**

### **MADH7 (SMAD7) (NM\_005904) Human Recombinant Protein**

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human SMAD family member 7 (SMAD7), 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC210400 representing NM_005904 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MFRTKRSALVRRLLWRSRAPGGEEDEEGAGGGGGGGGELRGEGATDSRAHGAGGGGGPGRAGCCLGKAVRGAK            GHHPHPPPAAGAGAAGGAEADLKALTHSVLKKLKERQLELLLQAVESRGGTRTACLLLPGRLCDRLGPGA            PAGAQAQPPSSYSLPLLLCKVFRWPDLRHSSEVKRLCCCESYGKINPELVCCNPHHLSRLCELESPPPP            YSRYPMDFLKPTADCPDAVPSSAETGGTNYLAPGGLSDSQQLLLEPGDRSHWCVWAYWEEKTRVGRLYCVQ            EPSLDIFYDLPQNGFCLGQLNSDNKSQLVQKVRISKIGCGIQLTREVDGVWVYNRSSYPIFIKSATLDNP            DSRTLLVHKVFPGFSIKAFDYEKAYSLQRPNDHEFMQQPWTGFTVQISFVKGWGQCYTRQFISSCPCWLE            VIFNSR</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	46.2 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_005895</a></u>



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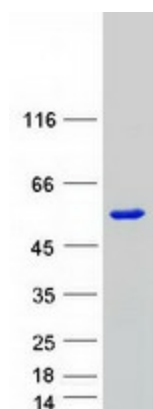
Locus ID: 4092  
UniProt ID: [O15105](#)  
RefSeq Size: 3103  
Cytogenetics: 18q21.1  
RefSeq ORF: 1278  
Synonyms: CRCS3; MADH7; MADH8

**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]

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** TGF-beta signaling pathway

### Product images:



Coomassie blue staining of purified SMAD7 protein (Cat# [TP310400]). The protein was produced from HEK293T cells transfected with SMAD7 cDNA clone (Cat# [RC210400]) using MegaTran 2.0 (Cat# [TT210002]).