

Product datasheet for **MC208925**

Smad7 (NM_001042660) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad7 (NM_001042660) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smad7
Synonyms:	Madh7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC208925 representing NM_001042660
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTTCAGGACCAAACGATCTGCGCTCGTCCGGCTCTCTGGAGGAGCCGTGCGCCCGCGGCGAGGACG
 AGGAGGAGGGCGTGGGGGTGGCGGCGGAGGAGCGAGCTGCGGGGAGAAGGGGGCAGCGACGGCCGGC
 TTATGGGGCTGGTGGCGCGGTGCGGGCAGGGCTGGCTGCTGCCTGGCAAGGCAGTCCGAGGTGCCAAA
 GGTCAACCACATCCCATCCCCAACCTCGGGTCCGGGGCGCCGGGGCGCCGAGGCGGATCTGAAGG
 CGCTCACGCACTCGGTGCTCAAGAACTCAAGGAGCGGCAGCTGGAGCTGCTGCTCAGGCCGTGGAGTC
 CCGCGCGGTACGCGCACCGGTGCTCCTGCTGCCCGGCCGCTGGACTGCAGGCTGGGCCCGGGGGCG
 CCCGCCAGCGCGAGCCCGCGCAGCCGCCCTCGTCTACTCGCTCCCCCTCCTGTGTGCAAAGTGTTC
 GGTGGCCGGATCTCAGGCATTCCTCGAAGTCAAGAGGCTGTGTTGCTGTGAATTTACGGGAAGATCAA
 CCCCAGCTGGTGTGCTGCAACCCCATCACCTTAGTCGACTCTGTGAAGTACAGTCTCCCCCTCCTCCT
 TACTCCAGATACCAATGGATTTTCTCAAACCAACTGCAGGCTGTCCAGATGCTGTACCTTCTCCGCGG
 AAACCGGGGGAACGAATTATCTGGCCCCTGGGGGGCTTTCAGATCCCAACTTCTTCTGGAGCCTGGGGA
 TCGGTCACTGGTGCCTGGTGCATACTGGGAGGAGAAGACTCGCGTGGGGAGGCTCTACTGTGTCCAA
 GAGCCCTCCCTGGATATCTTCTATGATCACTCAGGGGAATGGCTTTTGCCTCGGACAGCTCAATTCGG
 ACAACAAGAGTCAGCTGGTACAGAAAGTGGGAGCAAGATCGGCTGTGGCATCCAGCTGACGCGGGAAGT
 GGATGGCGTGTGGGTTTACAACCGCAGCAGTTACCCCATCTTCAAGTCCGCCACTGGACAACCCG
 GACTCCAGGACGCTGTTGGTGCACAAAGTGTCCCTGGTTTCTCCATCAAGGCTTTTGACTATGAGAAAG
 CCTACAGCCTGCAGCGGCCCAATGACCAGGAGTTCATGCAGCAACCATGGACGGGTTTACCAGTGCAGAT
 CAGCTTTGTGAAGGGCTGGGGCCAGTGTACACCCGCCAGTTCATCAGCAGCTGCCCGTGTGGTGGAG
 GTCATCTTCAACAGCCGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3338_d05.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001042660

Insert Size: 1281 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](#)

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:	BC137638 , AAI37639
RefSeq Size:	4441 bp
RefSeq ORF:	1281 bp
Locus ID:	17131
UniProt ID:	O35253
Cytogenetics:	18 E3
Gene Summary:	Antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members; has been shown to inhibit TGF-beta (Transforming growth factor) and activin signaling by associating with their receptors thus preventing SMAD2 access. Functions as an adapter to recruit SMURF2 to the TGF-beta receptor complex. Also acts by recruiting the PPP1R15A-PP1 complex to TGFBR1, which promotes its dephosphorylation. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.[UniProtKB/Swiss-Prot Function]