

Product datasheet for **RG208749**

SMAD3 (NM_005902) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMAD3 (NM_005902) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SMAD3
Synonyms:	HSPC193; HsT17436; JV15-2; LDS1C; LDS3; MADH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208749 representing NM_005902 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGTCACCTCTGCCTTTCACTCCCCGATCGTGAAGCGCCTGCTGGGCTGGAAGAAGGGCGAGCAGA
ACGGGCAGGAGAGAAATGGTGCAGAGAAGGCGGTCAAGAGCCTGGTCAAGAACTCAAGAAGACGGGGCA
GCTGGACGAGCTGGAGAAGGCCATCACACGCAGAACGTCAACACCAAGTGCATCACCATCCCCAGGTCC
CTGGATGGCCGTTGCAGGTGTCCATCGGAAGGGGCTCCCTCATGTCATCTACTGCCGCTGTGGCGAT
GGCCAGACCTGCACAGCCACCACGAGCTGCGGGCCATGGAGCTGTGTGAGTTCGCCTTCAATATGAAGAA
GGACGAGGTCTGCGTGAATCCCTACCACTACCAGAGAGTAGAGACACCAGTTCACCTCCTGTGTTGGTG
CCACGCCACACAGAGATCCCGGGCGAGTTCCTCCCACTGGACGACTACAGCCATTCCATCCCCGAAAACA
CTAACTTCCCCGAGGCATCGAGCCCCAGAGCAATATTCCAGAGACCCCACTCCCTGGCTACCTGAGTGA
AGATGGAGAAACCACTGACCACCAGATGAACCACAGCATGGACGAGGTTCTCCAAACCTATCCCCGAAT
CCGATGTCCCCAGCACATAATAACTTGGACCTGCAGCCAGTTACCTACTGCGAGCCGGCCTTCTGGTGCT
CCATCTCCTACTACGAGCTGAACCAGCGGTGCGGGAGACATCCACGCCTCGCAGCCATCCATGACTGT
GGATGGCTTACCAGCCCTCCAATTGCGAGCGCTTCTGCCTAGGGCTGCTCTCCAATGTCAACAGGAAT
GCAGCAGTGGAGCTGACACGGAGACACATCGGAAGAGGGGTGCGGCTCTACTACATCGGAGGGGAGGTCT
TCGCAGAGTGCCTCAGTGACAGCGCTATTTTTGTCCAGTCTCCAACTGTAAACCAGCGCTATGGCTGGCA
CCCGGCCACCGTCTGCAAGATCCACCAGGATGCAACCTGAAGATCTTCAACAACCAGGAGTTTCGCTGCC
CTCCTGGCCAGTCGGTCAACCAGGGCTTTGAGGCTGTCTACCAGTTGACCCGAATGTGCACCATCCGCA
TGAGCTTCGTCAAAGGCTGGGGAGCGGAGTACAGGAGACAGACTGTGACCAGTACCCCTGCTGGATTGA
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TGTTCCAGTGTCT

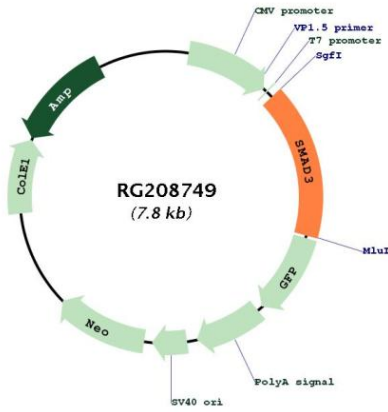
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005902.2
RefSeq Size:	6256 bp
RefSeq ORF:	1278 bp
Locus ID:	4088
UniProt ID:	P84022
Cytogenetics:	15q22.33
Domains:	DWB, DWA, MH1
Protein Families:	Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - TGFb/BMP signaling pathway, Transcription Factors
Protein Pathways:	Adherens junction, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway, Wnt signaling pathway
Gene Summary:	<p>The SMAD family of proteins are a group of intracellular signal transducer proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. The SMAD3 protein functions in the transforming growth factor-beta signaling pathway, and transmits signals from the cell surface to the nucleus, regulating gene activity and cell proliferation. It also functions as a tumor suppressor. Mutations in this gene are associated with aneurysms-osteoarthritis syndrome and Loeyes-Dietz Syndrome 3.</p> <p>[provided by RefSeq, Nov 2019]</p>

Product images:



Circular map for RG208749