

Product datasheet for **MG226725**

Smad5 (NM_008541) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad5 (NM_008541) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Smad5
Synonyms:	1110051M15Rik; AI451355; Dwf-C; Madh5; MusMLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226725 representing NM_008541
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGTC AATGGCCAGCTTGT TTTCTTTCACTAGTCCAGCCGTGAAGCGATTGTTGGGCTGGAACAAG
 GTGACGAGGAAGAGAAATGGGCAGAAAAGCAGTGGATGCTTTAGTGAAAAGCTGAAGAAGAAGAGGG
 TGCTATGGAGGAGCTGGAGAAAGCCTTGAGCAGCCAGGACAGCCAAGCAAGTGTGTACAGATCCCCAGG
 TCCTTGGATGGACGTCTGCAAGTTTCTCACAGGAAAGGCTTGCCCATGTTATATATTGCCGTGTTTGGC
 GCTGGCCAGATTTGCAGAGCCATCACGAGCTAAAACCATGGATATTTGTGAATTTCTTTTGGATCTAA
 GCAAAAGGAAGTTGTATCAATCCATACCACTATAAGAGAGTGGAGAGTCCAGTCTTACCTCCAGTATTA
 GTGCCCTCGTCACAATGAATTCATCCACAACACAGCCTTCTGGTTCAGTTCAGGAACCTGAGCCACAATG
 AACCGCACATGCCACAAAACGCCAGTTTCCCGATTCTTCCACCAACCCAACAACGCTCCTTTCCCTT
 ATCTCCTAACAGCCCTATCCTCCTTCCCTGCTAGCAGCACATATCCCACTCCCAGCAAGCTCTGGA
 CCTGGAAGTCCATTTCAACTCCCAGCTGACACCCCTCCCCTGCCTATATGCCACCTGATGATCAGATGG
 CCCAGATAAATCCCAGCCTATGGATACAAGCAGTAACATGATTCTCAGACCATGCCCAGCATATCCAG
 CAGAGATGTTACGCTGTGCGCTATGAGGAGCCAAAACACTGGTGTTCGATTGTCTACTATGAATTAAC
 AATCGTGTGGGGAAGCTTTTTCATGCATCTTCTACTAGTGTGTTAGTAGATGGATTTACAGATCCTTCAA
 ATAACAAAAGTAGATTCTGCCTGGGATTGTTGTCAAATGTTAATCGTAATTCAACTATTGAAAACACTAG
 GCGGCATATTGAAAAGGTGTTTCATCTATACTACGTTGGTGGGAGGTGTACGCTGAGTGTCTTAGTGAC
 AGCAGCATCTTTGTTGAGTAGGAAGTCAACTTTTACCATGGCTTCCATCCCACCACCGTCTGTAAGA
 TCCCCAGCAGCTGCAGCCTCAAGATTTTAAACAATCAGGAGTTTGCTCAGCTTCTGGCTCAGTCAGTCAA
 CCATGGATTGAGGCTGTGTATGAGCTACCAAGATGTGTACCATTGCAATGAGCTTTGTCAAGGCTGG
 GGAGCAGAGTACCACCGACAGGCGTACCAGTACTCCCTGCTGGATTGAGATTCACCTCCACGGGCCTC
 TGCAAGTGGCTGGATAAAGTCTTACTCAGATGGCTCTCCGCTGAACCCATTCTTCTGTTTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226725 representing NM_008541
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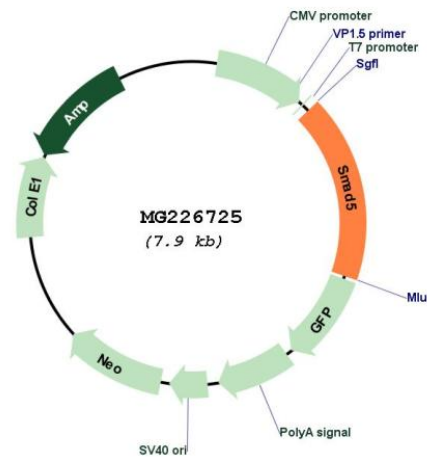
MTSMASLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLLKKKKGAMEELEKALSSPGQPSKCVTIPR
 SLDGRLQVSHRGLPHVIYCRVWRWPDLSHHEKPLDICEFPFGSKQKEVCINPYHYKRVE SPVLPV
 VPRHNEFNPQHSLLVQFRNL SHNEPHMPQNA TFPDSFHQPNNAPFPLSPNSPYPPSPASSTYPNSPASSG
 PGSPFQLPADTPPPAYMPPDDQMAPDNSQPMDTSSNMIPQTMPSISSRDVQPVAYEYPKHWC SIVYELN
 NRVGEAFHASSTSVLVDGFTDPSNNKSRFCLGLLSNVNRNSTIENTRRRHHGKGVHLYYVGGVEVYAECLSD
 SSIFVQSRNCNFHHGFHPTTVCKIPSSCSLKI FNNQEF AQLLAQSVNHGF EAVYELTKMCTIRMSFVKGW
 GA EYHRQDVTSTPCWIEIHLHGPLQWLDKVL TQMG SPLNPISSVS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_008541

ORF Size: 1395 bp

OTI Disclaimer: 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_008541.3</u> , <u>NP_032567.1</u>
RefSeq Size:	6585 bp
RefSeq ORF:	1398 bp
Locus ID:	17129
UniProt ID:	<u>P97454</u>
Cytogenetics:	13 30.12 cM
Gene Summary:	Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD5 is a receptor-regulated SMAD (R-SMAD) (By similarity). Required for angiogenesis.[UniProtKB/Swiss-Prot Function]