

Product datasheet for **MR226725**

Smad5 (NM_008541) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad5 (NM_008541) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smad5
Synonyms:	1110051M15Rik; AI451355; Dwf-C; Madh5; MusMLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226725 representing NM_008541
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGTC AATGGCCAGCTTGT TTTCTTTCACTAGTCCAGCCGTGAAGCGATTGTTGGGCTGGAACAAG
 GTGACGAGGAAGAGAAATGGGCAGAAAAGCAGTGGATGCTTTAGTGAAAAGCTGAAGAAGAAGAGGG
 TGCTATGGAGGAGCTGGAGAAAGCCTTGAGCAGCCAGGACAGCCAAGCAAGTGTGTACAGATCCCCAGG
 TCCTTGGATGGACGTCTGCAAGTTTCTCACAGGAAAGGCTTGCCCATGTTATATATTGCCGTGTTTGGC
 GCTGGCCAGATTTGCAGAGCCATCACGAGCTAAAACCATGGATATTTGTGAATTTCTTTTGGATCTAA
 GCAAAAAGGAGTTTGTATCAATCCATACCACTATAAGAGAGTGGAGAGTCCAGTCTTACCTCCAGTATTA
 GTGCCCTCGTCACAATGAATTC AATCCACAACACAGCCTTCTGGTTCAGTTCAGGAACCTGAGCCACAATG
 AACCGCACATGCCACAAAACGCCAGTTTCCCATTCTTCCACCAACCCAACAACGCTCCTTTCCCCTT
 ATCTCCTAACAGCCCCTATCCTCCTCCCCTGCTAGCAGCACATATCCCACTCCCAGCAAGCTCTGGA
 CCTGGAAGTCCATTTCAACTCCCAGCTGACACCCCTCCCCTGCCTATATGCCACCTGATGATCAGATGG
 CCCAGATAAATCCCAGCCTATGGATACAAGCAGTAACATGATTCCTCAGACCATGCCCAGCATATCCAG
 CAGAGATGTT CAGCCTGTGCGCTATGAGGAGCCAAAACACTGGTGTTCGATTGTCTACTATGAATTAAC
 AATCGTGTGGGGAAGCTTTTTCATGCATCTTCTACTAGTGTGTTAGTAGATGGATTTACAGATCCTTCAA
 ATAACAAAAGTAGATTCTGCCTGGGATTGTTGTCAAATGTTAATCGTAATTCAACTATTGAAAACACTAG
 GCGGCATATTGAAAAGGTGTTCACTATACTACGTTGGTGGGGAGGTGACGCTGAGTGTCTTAGTGAC
 AGCAGCATCTTTGTT CAGAGTAGAACTGCAACTTTACCATGGCTTCCATCCCACCACCGTCTGTAAGA
 TCCCCAGCAGCTGCAGCCTCAAGATTTTAAACAATCAGGAGTTTGCTCAGCTTCTGGCTCAGTCAAGCA
 CCATGGATTGAGGCTGTGTATGAGCTACCAAGATGTGTACCATTGCAATGAGCTTTGCAAGGCTGG
 GGAGCAGAGTACCACCGACAGGCGTACCAGTACTCCCTGCTGGATTGAGATTCACCTCCACGGGCCTC
 TGCACTGGCTGGATAAAGTCTTACTCAGATGGCTCTCCGCTGAACCCATTCTTCTGTTTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226725 representing NM_008541
 Red=Cloning site Green=Tags(s)

MTSMASLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLLKKKKGAMEELEKALSSPGQPSKCVTI
 PRLDGRQLQVSHRKLPHVIYCRVWRWPDLSHHEKPLDICEFPFGSKQKEVCINPYHYKRVE
 SPVLPVLPVPRHNEFNPQHSLLVQFRNL SHNEPHMPQNFATFPDSFHQPNNAPFPLSPNSPYPPSPASSTYPNSPASSG
 PGSPFQLPADTPPPAYMPPDDQMAPDNSQPMDTSSNMIPQTMPSISSRDVQPVAYEYPKHWC
 SIVVYELN NRVGEAFHASSTSVLVDGFTDPSNNKSRFCLGLLSNVNRNSTIENTRRRIGKGVHLYYVGG
 EVYAECLSD SSIFVQSRNCFHHGFHPTTVCKIPSSCSLKI FNNQEFQLLAQSVNHGFEAVYELTKMCT
 IRMSFVKGW GA EYHRQDVTSTPCWIEIHLHGPLQWLDKVL TQMG SPLNP ISSVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

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:

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_008541.3](#), [NP_032567.1](#)
RefSeq Size: 6585 bp

RefSeq ORF: 1398 bp

Locus ID: 17129

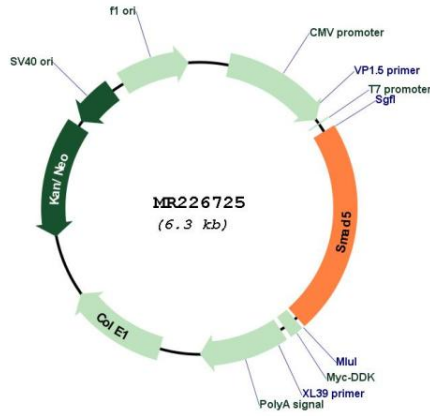
UniProt ID: [P97454](#)

Cytogenetics: 13 30.12 cM

MW: 52.2 kDa

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]

Product images:



Circular map for MR226725