

Product datasheet for **MR226729**

Smad5 (NM_001164041) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Smad5 (NM_001164041) 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:

>MR226729 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGTC AATGGCCAGCTTGT TTTCTTTCACTAGTCCAGCCGTGAAGCGATTGTTGGGCTGGAACAAG
 GTGACGAGGAAGAGAAATGGGCAGAAAAGCAGTGGATGCTTTAGTGAAAAGCTGAAGAAGAAGAGGG
 TGCTATGGAGGAGCTGGAGAAAGCCTTGAGCAGCCAGGACAGCCAAGCAAGTGTGTACAGATCCCCAGG
 TCCTTGGATGGACGTCTGCAAGTTTCTCACAGGAAAGGCTTGCCCATGTTATATATTGCCGTGTTTGGC
 GCTGGCCAGATTTGCAGAGCCATCACGAGCTAAAACCATGGATATTTGTGAATTTCTTTTGGATCTAA
 GCAAAAGGAAGTTTGTATCAATCCATACCACTATAAGAGAGTGGAGAGTCCAGTCTTACCTCCAGTATTA
 GTGCCTCGTCACAATGAATTCATCCACAACACAGCCTTCTGGTTCAGTTCAGGAACCTGAGCCACAATG
 AACCGCACATGCCACAAAACGCCAGTTTCCCATTCTTCCACCAACCCAACAACGCTCCTTTCCCCTT
 ATCTCCTAACAGCCCCTATCCTCCTCCCCTGCTAGCAGCACATATCCAACTCCCAGCAAGCTCTGGA
 CCTGGAAGTCCATTTCAACTCCCAGCTGACACCCCTCCCCTGCCTATATGCCACCTGATGATCAGATGG
 CCCAGATAATCCCAGCCTATGGATACAAGCAGTAACATGATTCTCAGACCATGCCCAGCATATCCAG
 CAGAGATGTTACGCTGTGCGCTATGAGGAGCCAAAACACTGGTGTTCGATTGTCTACTATGAATTAAC
 AATCGTGTGGGGAAGCTTTTATGCATCTTCTACTAGTGTGTTAGTAGATGGATTTACAGATCCTTCAA
 ATAACAAAAGTAGATTCTGCCTGGGATTGTTGTCAAATGTTAATCGTAATTCAACTATTGAAAACACTAG
 GCGGCATATTGAAAAGGTGTTCACTATACTACGTTGGTGGGGAGGTGTACGCTGAGTGTCTTAGTGAC
 AGCAGCATCTTTGTTAGAGTAGGAAGTCAACTTTACCATTGGCTTCCATCCCACCACCGTCTGTAAGA
 TCCCCAGCAGCTGCAGCCTCAAGATTTTAAACAATCAGGAGTTTGCTCAGCTTCTGGCTCAGTCAAGCA
 CCATGGATTTCGAGGCTGTGTATGAGCTACCAAGATGTGTACCATTGCAATGAGCTTTGTCAAGGCTGG
 GGAGCAGAGTACCACCGACAGGACGTCACCAGTACTCCCTGCTGGATTGAGATTCACCTCCACGGGCCTC
 TGCAGTGGCTGGATAAAGTCTTACTCAGATGGCTCTCCGCTGAACCCCATTTCTTCTGTTTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226729 protein sequence
 Red=Cloning site Green=Tags(s)

MTSMASLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLLKKKKGAMEELEKALSSPGQPSKCVTI
 PRLDGRQLQVSHRKLPHVIYCRVWRWDLQSHHELKPLDICEFPFGSKQKEVCINPYHYKRVE
 SPVLPVLPVPRHNEFNPQHSLLVQFRNL SHNEPHMPQNA TFPDSFHQPNNAPFPLSPNSPYPP
 SPASSTYPNSPASSGPGSPFQLPADTPPPAYMPPDDQMAPDNSQPMDTSSNMIPQTMP
 SISRSDVQPVA YEEP KHWCSIVVYELN NRVGEAFHASSTSVLVDGFTDPSNNSRFCLGLL
 SNVNRNSTIENRRRHIGKGVHLYYVGGEVYAECLSD SSIFVQSRNCFHHGFHPTTVCKIP
 SSSCLKIFNNQEFQLLAQSVNHGFEAVYELTKMCTIRMSFVKGW GA EYHRQDVTSTPCWIE
 IHLHGPLQWLDKVL TQMG SPLNPISSVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001164041

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_001164041.1](#), [NP_001157513.1](#)

RefSeq Size: 6988 bp

RefSeq ORF: 1398 bp

Locus ID: 17129

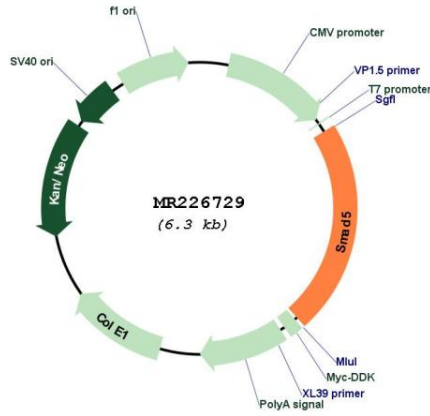
UniProt ID: [P97454](#)

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 MR226729