

Product datasheet for **MC221928**

Axin1 (NM_001159598) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Axin1 (NM_001159598) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Axin1
Synonyms:	AI316800; Axin; Fu; fused; Kb; Ki; kinky; knobbly
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221928 representing NM_001159598
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGAGTCCAAAATGAATGTCCAGGAGCAGGGTTTCCCTTGGACCTCGGAGCAAGTTTACCCGAAG
 ATGCCCCCGGCCCCAGTGCCTGGAGAAGAGGGAGAAGTGGTATCTACTGATTGAGGCCGTGCAACCA
 CAGTTTCTGTTCTGGAAAGGTACCAGCATTAAAAGTGAGACCTCAACAGCCACCCCAAGACGTTAGAT
 CTGGATCTGGGATATGAGCCGAGGGCAGTGCCTCCCCACCCACCATATTTGAGGTGGGCTGAGTCAC
 TGCATTCTTACTGGATGACCAAGATGGGATCAGCCTGTTGAGGACTTTCCTGAAGCAGGAGGGCTGTGC
 TGACCTGCTGGACTTCTGGTTTGCCTGCAGTGGCTTCAGGAAGCTTGAGCCCTGTGACTCAAATGAGGAA
 AAGAGGCTGAAGCTGGCAAGAGCCATCTACCGAAAGTACATCCTGGATAGCAATGGCATTGTGTCCAGAC
 AAACCAAGCCAGCCACTAAGAGCTTCATAAAGGACTGTGTATGAAGCAGCAGATAGATCCTGCCATGTT
 TGACCAGGCACAGACAGAAATCCAGTCCACCATGGAGGAGAATACCTACCCTTCTTTCTTAAGTCTGAC
 ATTTATTTGGAGTACACAAGGACAGGCTCAGAGAGTCCGAAGGTCTGCAGTGACCAGAGCTCAGGGTCTG
 GAACAGGGAAGGGCATGTCTGGATACCTGCCACTTTGAATGAGGATGAAGAATGAAATGTGACCAAGA
 TGCAGATGAGGATGATGGCCGAGACCCTCTCCCCCAGCAGGCTCACCCAGAAGCTGCTATTGGAGACT
 GCTGCCCCGAGGGCCCCCTCAAGTAGACGGTACAACGAAGGCAGAGAGCTCAGGTATGGATCTTGGAGGG
 AGCCCGTCAACCCTACTACGTCAACTCTGGCTATGCCCTGGCCCCAGCCACCAGTGCCAATGACAGTGA
 GCAGCAGAGCCTGTCCAGTATGCTGACACGCTATCCCTACGGACAGTGTGTGGATGGAATCCCCCA
 TACAGGATCCGTAAAGCAGCACCGAAGGGAGATGCAGGAGAGTATCCAAGTCAATGGGCGGTACCTCTAC
 CTCACATTCCTCGCACTTACCGAATGCCAAAGGAGATCCGGGTAGACCACAGAAATTTGCTGAAGAGCT
 TATTCACCGTCTAGAGGCTGTCCAGCGCACTCGAGAGGCTGAAGAAAAGTTGGAGGAACGGCTGAAGCGT
 GTACGCATGGAGGAAGAAGGGGAGGATGGTGAATGCCTTCTGGCCCATGGCAAGTACAAAGTGCCTT
 CTGTCCCAGCTTGGCACCATTTCCACCCCGCTATGTGGATATGGGCTGCTCTGGACTGCGGGATGCCCA
 TGAGGAGAATCCTGAGAGCATCCTGGATGAGCAGTGCAGGAGGTCATGAGGACACCTGGCTGCCAGTCA
 CCTGGCCAGGCCACCGCTCTCCTGACAGTGGGCATGTGGCTAAGACTGCAGTGTAGGGGGTACAGCCT
 CCGGGCATGGGAAGCATGTTCTAAGTTAGGGTTGAAGCTGGATACAGCTGGCCTGCACCATCATAGACA
 TGTCCACCACCATGTTACCATAATTACGCTAGACCTAAGGAGCAAATGGAGGCTGAAGTTGCCCGCAGG
 GTCAGAGCAGCTTCTCGTGGGCCCAGAAACACATGGTATGCCAAGCCCGGAGCTATCCGAGAACG
 CAGGCACCACCCTCAGTGTGGGGATTTGGCCTTTGGTGGTAAAAGTGTGCACCTTCCAAAAGAAACAC
 CAAGAAGGCTGAATCTGGGAAGAATGCCAATGCTGAGGTACCCAGTACCACAGAGGACGCTGAGAAGAAC
 CAGAAGATCATGCAGTGGATCATTGAGGGAGAGAAGGAGATCAGTAGACACCCGGAAGGCAGGCCATGGGT
 CTTCTGGGTTGAGGAAGCAGCAGGCCATGAAAGCTCCAGGCCCTTGTCATCGAGCGTCTGGGGCCGT
 GCACCCCTGGGTCAGCGCTCAGCTTCGGAATCTGTCCAGCCTTCTCATCTTTTCATCCAAGATCCCACA
 ATGCCACCCAATCCAGCCCCTAATCCCCTGACCAGCTGGAAGAGGCCCGCAGGCCGTTTGGAAAGAAGAAG
 AAAAGAGAGCAAACAACTGCCCTCAAAGCAGAGGACAAAATCACAAAGAAGGCAGGTGGCGGGAGTGC
 ACCACCATGTGACAGCATTGTTGTGGCCTACTATTTCTGTGGGAACCCATCCCCTACCGACCCCTGGTG
 AGGGGCCGTGCTGTACCCTGGGCCAGTTCAAGGAGCTGCTAACCAAGAAGGGGAGCTACAGATACTACT
 TTAAGAAAGTGAAGTATGAGTTTACTGTGGTGGTATTTGAGGAAGTACGGGAGGATGAGGCCGTCTT
 GCCTGTCTTTGAAGAAAAGATCATCGGCAAGGTGGAAAAGGTGGACT**GA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001159598
Insert Size: 2499 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001159598.1</u> , <u>NP_001153070.1</u>
RefSeq Size:	3671 bp
RefSeq ORF:	2499 bp
Locus ID:	12005
Cytogenetics:	17 13.07 cM
Gene Summary:	<p>Component of the beta-catenin destruction complex required for regulating CTNNB1 levels through phosphorylation and ubiquitination, and modulating Wnt-signaling (By similarity). Controls dorsoventral patterning via two opposing effects; down-regulates CTNNB1 to inhibit the Wnt signaling pathway and ventralize embryos, but also dorsalizes embryos by activating a Wnt-independent JNK signaling pathway. In Wnt signaling, probably facilitates the phosphorylation of CTNNB1 and APC by GSK3B. Likely to function as a tumor suppressor. Facilitates the phosphorylation of TP53 by HIPK2 upon ultraviolet irradiation. Enhances TGF-beta signaling by recruiting the RNF111 E3 ubiquitin ligase and promoting the degradation of inhibitory SMAD7 (By similarity). Also component of the AXIN1-HIPK2-TP53 complex which controls cell growth, apoptosis and development.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript and encodes the shorter isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>