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Product datasheet for MR210915

Axin2 (NM_015732) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Axin2 (NM_015732) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Axin2
Synonyms:	Axi1; Axil; Conductin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR210915 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTAGCGCCGTGTTAGTGACTCTCCTTCCAGATCCCAGCAGCAGCTTCCGCGAGGATGCTCCGCGGC
CCCCGGTTCCGGGAGAAGAAGGGGAGACCCCACCGTGTCAGCCTAGTGTGGGCAAGGTCCAGTCCACCAA
ACCTATGCCCGTTTCCTCTAATGCTAGGCGGAATGAAGATGGACTGGGGGAGCCCGAGGGGCGGGCCTCC
CCCGATTCCCCTTTGACCAGGTGGACCAAGTCTTTACACTCCTTGTTGGGTGACCAGGATGGTGCATACC
TCTTCCGGACTTTCCTGGAGAGGGAGAAATGTGTGGATACGCTGGACTTCTGGTTTGCTTGTAATGGGTT
CAGGCAGATGAACCTGAAGGATACCAAAACTTTGCGAGTGGCCAAAGCAATCTATAAGAGGTACATTGAG
AACAACAGCGTTGTCTCCAAGCAGCTGAAGCCCGCCACCAAGACCTACATACGAGATGGCATCAAGAAGC
AACAGATCGGCTCGGTCATGTTTGACCAGGCACAGACCGAGATCCAGGCAGTGATGGAGGAAAATGCCTA
CCAGGTGTTCTTGACTTCTGACATTTACCTGGAATATGTGAGGAGTGGGGGGGAAAACACAGCTTACATG
AGTAACGGGGGACTGGGGAGCCTAAAGGTCTTATGTGGCTACCTCCCCACCTTGAATGAAGAAGAGGAGT
GGACGTGTGCCGACCTCAAGTGCAAACTCTCACCCACCGTGGTTGGCTTGTCCAGCAAAACTCTTCGGGC
CACCGCGAGTGTGAGATCCACGGAAACAGCTGAAAACGGATTCAGGTCCTTCAAGAGAAGCGACCCAGTC
AATCCTTATCACGTAGGTTCCGGCTATGTCTTTGCACCAGCCACCAGCGCCAACGACAGCGAGTTATCCA
GCGACGCACTGACCGACGATTCCATGTCCATGACGGACAGTAGCGTAGATGGAGTCCCTCCTTACCGCAT
GGGGAGTAAGAAACAGCTCCAGAGAGAGATGCATCGCAGTGTGAAGGCCAATGGCCAAGTGTCTCTACCT
CATTTTCCGAGAACCCACCGCCTGCCCAAGGAGATGACGCCTGTGGAACCTGCTGCCTTCGCCGCCGAGC
TCATCTCCAGGCTGGAGAAACTGAAACTGGAGCTGGAAAGCCGCCATAGTCTGGAGGAGCGGCTGCAGCA
GATCCGGGAGGATGAAGAAAAGGAGGGGTCTGAGCAGGCCCTGAGCTCACGGGATGGAGCACCGGTCCAG
CACCCCCTGGCCCTCCTACCCTCCGGCAGCTATGAAGAGGACCCACAAACCATTTTGGACGACCACCTCT
CCAGGGTCCTCAAGACCCCCGGCTGTCAATCCCCTGGTGTGGGTCGCTATAGCCCACGGTCCCGCTCCCC
CGACCACCACCACCAGCACCACCACCATCAGCAGTGTCATACCCTTCTTCCGACTGGGGGCAAGCTGCCC
CCCGTGGCTGCTTGCCCCCTCCTTGGAGGCAAGAGCTTCCTGACCAAACAGACGACGAAGCACGTTCACC
ACCACTACATCCACCACCACGCTGTCCCCAAGACCAAGGAGGAGATCGAGGCAGAAGCCACACAGAGAGT
CCGCTGCCTCTGTCCTGGGGGAACAGATTATTATTGCTACTCCAAATGCAAAAGCCACCCAAAGGCTCCA
GAGCCCCTGCCTGGGGAGCAGTTTTGTGGCAGCAGAGGTGGTACCTTGCCAAAACGGAATGCAAAGGGCA
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GAGTCAGCCGGCACCATCTGTTGGGGGCCAGCGGACACTCCCGCTCGGTGGCCCGGGCTCACCCATTTAC
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GAAATTCCATACAGGAGGATGCTGAAGGCTCAAAGCTTGACCCTGGGCCACTTCAAGGAGCAGCTCAGCA
AAAAGGGAAATTACAGGTATTATTTCAAGAAGGCGAGTGACGAATTTGCCTGCGGAGCAGTTTTTGAGGA
GATCTGGGACGACGAGACAGTGCTCCCCATGTACGAAGGCAGGATCCTGGGCAAAGTGGAGAGGATCGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

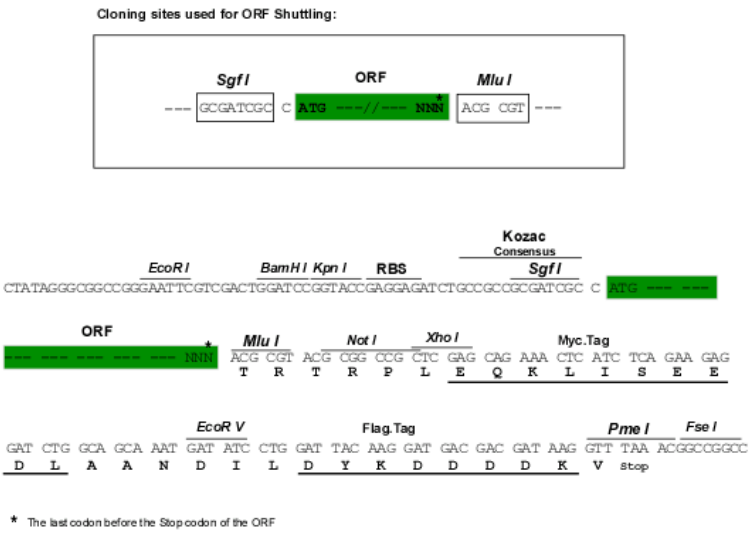
>MR210915 protein sequence
Red=Cloning site Green=Tags(s)

MSSAVLVTLLPDPSSSFREDAPRPPVPGEEGETPPCQPSVGKVQSTKPMPVSSNARRNEDGLGEPEGRAS
PDSPLTRWTKSLHSLLGDQDGAYLFRTFLEREKCVDTLDFWFACNGFRQMNLKDTKTLRVAKAIYKRYIE
NNSVVSKQLKPATKTYIRDGIKKQQIGSVMFDQAQTEIQAVMEENAYQVFLTSDIYLEYVRSGGENTAYM
SNGGLGSLKVLCGYLPTLNEEEEWTCADLKCKLSPTVVGLSSKTLRATASVRSTETAENGFRSFKRSDPV
NPYHVGSGYVFAPATSANDSELSSDALTDDSMSMTDSSVDGVPPYRMGSKKQLQREMHRSVKANGQVSLP
HFPRTHRLPKEMTPVEPAAFAAELISRLEKLKLELESRHSLEERLQQIREDEEKEGSEQALSSRDGAPVQ
HPLALLPSGSYEEDPQTILDDHLSRVLKTPGCQSPGVGRYSPRSRSPDHHHQHHHHQQCHTLLPTGGKLP
PVAACPLLGGKSFLTKQTTKHVHHHYIHHHAVPKTKEEIEAEATQRVRCLCPGGTDYYCYSKCKSHPKAP
EPLPGEQFCGSRGGTLPKRNAKGTEPGLALSARDGGMSSAAGAPQLPGEEGDRSQDVWQWMLESERQSKS
KPHSAQSIRKSYPLESACAAPGERVSRHHLLGASGHSRSVARAHPFTQDPAMPPLTPPNTLAQLEEACRR
LAEVSKPQKQRCCVASQQRDRNHSAAGQAGASPFANPSLAPEDHKEPKKLASVHALQASELVVTYFFCGE
EIPYRRMLKAQSLTLGHFKEQLSKKGNYRYYFKKASDEFACGAVFEEIWDDETVLPMYEGRILGKVERID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015732

ORF Size: 2523 bp

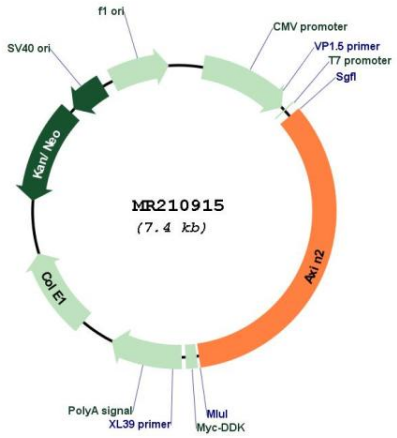
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_015732.4, NP_056547.3
RefSeq Size:	4279 bp
RefSeq ORF:	2523 bp
Locus ID:	12006
UniProt ID:	O88566
Cytogenetics:	11 71.83 cM
MW:	92.9 kDa
Gene Summary:	Inhibitor of the Wnt signaling pathway. Down-regulates beta-catenin. Probably facilitate the phosphorylation of beta-catenin and APC by GSK3B.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210915