

Product datasheet for **MC223690**

Amer1 (NM_175179) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Amer1 (NM_175179) Mouse Untagged Clone
Tag: Tag Free
Symbol: Amer1
Synonyms: 2810002O09Rik; AW492303; Fam123b; Wtx
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223690 representing NM_175179
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGAGTCAACAGGATGAAGCTGTTCAAACCAAGGAGCATCAACTTCTAGCGATGCCAAGACCAGG
 GAGCTGAAAAGGGAGCCAAGAATAAGACAACACTGAGGCAACAGAAGGACCAACATCAGAGCCTCCCTATC
 AGGCCAGGTAGGCTGAAGAAAAGTCCATGAAACTCTTTGGTGGCAAGAAGGGAATCTGTACTCTGCCT
 AGTTTCTTTGGGGTGGACGAAGCAAAGTTCTGGGAAAGTCAGCTCTAAGAAAAGTCTAAACAAGAGTA
 AGACTCACGATGGTCTAAGTGAAGCGTCTCAGGGACCTGAAGATGTTGTCATTGAAGAAACAGACCTCTC
 TACACCTTTGTCCAAGTCATCTGCTCAATTTCTAGCTCCAGAGTGCCAATGGAGCGTTGGAGATAGGC
 TCTAAACATAAGACATCTGGGACTGAAGCCATAGAAAAAGCTGGAGTTGAGAAGGTACCTCTGTGCACA
 AGCCGAAGAAAAGCCTAAAAAGCTTCTTAGCAGTATCCGCCGTCACCGGAAGGGCAAGACTTCTGGGGC
 TGACCAAAGTGTGCCAGGGGCCAAGGAACCTGAGGGGGCAAGAACCAGGTCTCATGAGCATGTGAGTTCA
 ATCTCTCTGCCAGCTCTGAGGAGATATCCGAGACACTAGAAAAGGAAAATGCCAAACCCAGGATGCC
 CTGGACCAAAAATGTCTCCAGCACAAGTACATTTTTACCAACTACTGAGAAGGCAGCTTGTA AAAAATCC
 AGAAAAACTCACAAAGACCTGTGCCTCAGAGTTTATGCAGCCCAAGCCTGTTCTTGAAGGTGGTAGTCTA
 GAGGAGCCCCACACTTCAGAAACAGAAGGAAAAGTGGTGGCAGGAGAAGTAAACCCACCCAATGGCCCTG
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 AACCGAGATGGGACCAAGCGAAGTTCCTGCTTGGTAACCTACCAAGGAGGTGGGGAGGAGATGGCCTTGC
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 GCTACCATACTGTATATCTCCAGCCACCAGGGCTACATGCTTCTTGACCCAGTTCAAGTCTTATCTAA
 TCTAGGCCTTGGAGAACCTTTGACACCTCAGAGCGACCAGCAAGAGTCTGCTCCCAATAGTGATGAAGGT
 TATTATGACTCTACCACACCAGGATTTGAGGATGATTCAGGTGAGGCTCTGGGACTTGCCACAGGGATT



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GTCTACCCAGGGACAGCTATAGTGGTGATGCGCTATATGAGTTCTATGAGCCAGATGACAGTCTTGAGCA
CTCCCCACCTGGGGATGACTGCCTATATGACCTCCGTGGACGCAACTCAGAGATGTTGGATCCTTTCTTG
AACTTGGAGCCCTTTTCTTCTCGGCCACCTGGGCAATGGAAACCGAGGAAGAACGGCTAGTGACCATCC
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TCATGCCAGAGAAGCTTATGCCGAGACACCCATACTCGGAATCTTATGGCAGAAATGTCCGAGCCCGA
GAAACTCAGGCCCTTAGAGGCTCATTCTCAAGAGGGTCGAGTCCAAGAGACCAAGGTACGGCAGGAGAAGC
GTGCTTGGAGTATCAGATGAGGCCCTTAGTCCCTCAGTGATGGGTCTGGTGGCAGGGACATCAGGAGG
TTCTCAGACTTCTCACCGGGGAACCACTTCAGCTTCCCTGCTACTTCTAGCAGTGAGCCAGACTGGAGG
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TCCTTGAAGCTTTTGGAGCTGGGTATTACCACAACATGCCTTCAACAGCTATCACAGTCGGTTCTACC
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TCTGCTGCAATGGCACTCAATAGGAGAAGCCGTTCCCTTGACAATGCAGAGTCTCTGGAGCTGGAGCTC
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GGTCTATGACTGGCCTCCCTGGGCTCACTGTCTCTCCAGTGGGGCCAGGTCTTGCTTGGATGAGCCCT
AATCAGTTGTATGAGCCTTTCAATCAGTCTTCCATGTGCAGGCAACCTGTTGTGTAACCTCTGTGGCA
TGCCAGTGTGAGTCCAGGAAGAACACCTGGAGACTCTGTGTCTCAGTACCTCGACCTTCGCACCTACC
CTGCCCATGGCCCTTGCTATAACCTTCAATCACAGGCCCTCCAGAGTGGGAGGGCAAGCTCGGGAT
GTACTGCTGCCTGTAGATGAGCCAGTTGCTCTTCCATTTCTGGAGCCAACCTCTCAGTCTCAAGCCAAGC
CTGTAGGTATCACCCATGGTATCCCTCAGCTGCCAGGGTGGGGCTGAACCTTCCAGTCTCAACCCAA
TCACTATCGAGCTTCAACCTTGACCTGTCAAAGGAGAGGGGTGAGCAAGGTGCCTCTCTCTACCAGC
TACTCCTCTACTGCCATGAATGGAAACCTAGCCAAGTAG
    
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_175179

Insert Size:

3399 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:

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_175179.4](#), [NP_780388.2](#)

RefSeq Size: 8476 bp

RefSeq ORF: 3399 bp

Locus ID: 72345

UniProt ID: [Q7TS75](#)

Cytogenetics: X C3

Gene Summary: Regulator of the canonical Wnt signaling pathway. Acts by specifically binding phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P₂), translocating to the cell membrane and interacting with key regulators of the canonical Wnt signaling pathway, such as components of the beta-catenin destruction complex. Acts both as a positive and negative regulator of the Wnt signaling pathway, depending on the context: acts as a positive regulator by promoting LRP6 phosphorylation. Also acts as a negative regulator by acting as a scaffold protein for the beta-catenin destruction complex and promoting stabilization of Axin at the cell membrane. Promotes CTNNB1 ubiquitination and degradation. Involved in kidney development (By similarity).[UniProtKB/Swiss-Prot Function]