

Product datasheet for **MR222762**

Amer2 (NM_028113) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amer2 (NM_028113) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amer2
Synonyms:	2600011E07Rik; Fam123a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR222762 representing NM_028113
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACTCGCATTGTGAGTGCGCCGCGGAGACGCCGCCGAGAGCCCGCTCGGGGAAGATCAATAAGG
 CTGCGTTCAAGTTATTCAAGAAAAGGAAATCGGGGGCACCATGCCAGCATTTTGGGGTCAAAAACAA
 AGGGGATGGGAAGAGCTCGGGCCGACGGGAATGGTGAGAAGCAGGACCCACGACGGACTAGCCGAGGTG
 TTGGTGTGGAGGGCAGCAAGAAGGAGGAGCCGCTGGCGGGAGCGATCACAGCGGGGCCGGCCGATCC
 CCGGACCCCCAAACCTCCGGGCTGGCTGGGCTCCCTGGCCAGCAGCTCGGTGGCAAGTCCCACAG
 CTTCTTCTCCCTGCTGAAAAAGAACGGGCGATCGGAGACCGGCAAGGGAGACCATGCCGAGGCGAGCAAG
 GCTGGCGGCAACAAAAGAGGGGGCTGAAAGGGATCTTCAGCAGCATGCGCTGGCACCAGGAGGACAAGC
 GCGGAAGGAGGAGGAGAGAAGGCGGTGCGCGCGGGCCCGGGCAACCTGGTTCTGCCCGTTCGCT
 CACCGCCAGCCTGGAGTGCCTCAAGGAGGAGCCCGCCGAGCCGCGCGCCCGCCGACAGCCGGGCCAG
 GACGCCTCGCGACACGCAGCAGGTGAGCCCGCAGGGGGAGAGCAGGCGCCCGCTCCGCCGAGAGCGCC
 CGGAGCGGATCTGCCTCGAGGCCGGGAGCCCCACCGGCTCTGGCGATCAAAGCTCCCGGGGAGAGGACGC
 CGAGGGGCATCGGCGCGAGGAGAAGCCGGGGCAGCCCTCGAGTCGGGAGCCGGTGGAGTCCAGGCGGCC
 GAGGATGCGTCCAAGACAGGTGACGTTCCGATAAAGACCGTCCCCCTTGTGACTCCGAAGTGGCAGCG
 GCCGGGCGTCTGCTGTCCCTGACCTTCTCTGTTGATCCACCCTCAGACCCGTCGGCAGATCGTATTTG
 TTTGATGTTTTCTGACGTGACTTCACTGAAAAGCTTTGACTCTTTACAGGCTGTGGAGATATTATTGCA
 GACCCAGAAGAAGAGGCAGGCCCCAGCTGTGACAAGCATGTCCCGGGCCAGGCAAGCCAGTTCTCTCTA
 AAAAGAACGCAGCGTGGTGGCCTACCAAGGAGGAGGGGAGGAGATGGCCAGCCCGGATCAGGTGGACGA
 CACCTATCTCCCGAATTCTGGGACATGTTGTCCAGACTGAGGACCAAGGACAAGGAACTCAAGAAGGC
 GCAGCGAAGGCAGCCACTGCTTCCGACATCAAGTTGGCCCTGAGACCTCCAGTGATACCCGGTGTGGGG
 AAGCAGCCAAGGACATGTCCTCGGTCAAGCGCAGGAGGCTCCACAGAATCCCATGAGTCCAGCAGAA
 GGAGGAGCCCAACATCCGGAGAAGGAGCATCAAGAAGGTGTTCTAACAGCGATGAGGGCTACTGGGAC
 TCCACCACCCCTGGCCCAGAAGAAGAGAGCATCAGCAACAGCAGCAGCAGCAAGAAGGTGGTCATCCCCA
 GGGATAGCGACAGTGGCGATGCTCTCTGCGATCTCTACGTTGAACCTGAAGCAAGCCAGCCACCCTTCC
 TGCCACAGAGGACCCACCCTGCTTGTCCGGCTAAAGCCGGTGTCTCCAGGCACCATCACGTGTCCTCTG
 AGAACACCGGGCAGCTTGTGAAGGACTCTAAAATCCCTATTAGCATCAAGCATCTCTCAAACCTTCCGT
 CCAGCCATCCGGTGGTGCACCAGCAACCAGCCAGGAGTGAGGTGCCAGAACAAAATCCCTGTTTCCAA
 AGTGCTGGTCCGTAGGGTCAGCAACCGGGCTTGCTGGGACCACCATCAGGGCAGCAGCATGCCATGAC
 AGTGCCAAAAAGTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222762 representing NM_028113
Red=Cloning site Green=Tags(s)

MDSHCECAAETPAAEPPSGKINKAAFKLFKKRKS GGTMP SIFGVKNKGDGKSSGPTGMVRSRTHDGLAEV
 LVLEGSKKEEPPGGSDHSGARP IPGPPKPSG PGLGSLASSVAKSHSFFSLLKKNRSETGKGDHAEASK
 AGGKQKRGLKGI FSSMRWHRDRKRGKEEEEKAVRAAGP NLVLPGLTASLECVKEEPRAARRP DSPGQ
 DASRHAAGEPAGGEQAPASAE SAPERICLEAGSPTGSGDQSSRGEDAEGHRREEKPGAAL ESGAGEVQAA
 EDASKTGDVPIKTVPLVDSEGGSGRASAVDPSSVDPSPADRICLMFSDV TSLKSFDSL TGGCDIIA
 DPEEEAGPSCDKHVP GPKPVLSKKNASV VAYQGGGEEMASPDQVDDTYLPEFW DMLSQTEDQGGQTQEG
 AAKAATASDIKLAPETSSDTRCGEAAKDMSSVKRRRLHRIP IESQQKEEPKHPEKEHQEGV PNSDEGYWD
 STTPGPEEESISNSSSSKVVIPRSDSGDALCDLYVEPEAS PATLPATEDPPCL SRLKPVSPGTITCPL
 RTPGSL LKDSKIPI SIKHL SNLPSSHPV VHQQP ARSEVPRTKIPVSKVL VRRVSNRGLAGTTIRAAACHD
 SAKKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_028113

ORF Size: 1905 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_028113.3](#), [NP_082389.1](#)

RefSeq Size: 2718 bp

RefSeq ORF: 1908 bp

Locus ID: 72125

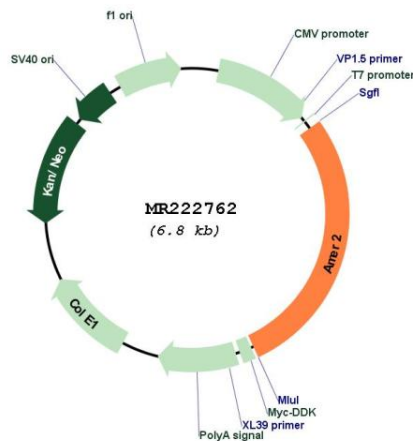
UniProt ID: [Q8CCJ4](#)

Cytogenetics: 14 D1

MW: 66.9 kDa

Gene Summary: Negative regulator of the canonical Wnt signaling pathway involved in neuroectodermal patterning. 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222762