

Product datasheet for MR223701

Ano3 (NM_001128103) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ano3 (NM_001128103) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ano3
Synonyms:	AI838058; B230324K02Rik; Tmem16c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223701 representing NM_001128103 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCACCACTCAGGCTCCATTCAGTCCTTTAAACAGCAAAAAGGTATGAATATAAGCAAAAGTGAGA
TAACAACGAAGCGTCATTAACACCATCTAGGAGATCCCTGCCTTGCTGGCCAGAGCTATGCTCATT
AAAAAGCTTGAGTCAATCTGCTTCACTGTTTCAGTCAACTGAGAGTGAATCTCAGGCTCCAACCTTGTA
ACATTTCTTTCTGCTGATAAGCCTGAACATGTTACTTCGGAGGAGAGTAGAAAGGACTCTACCTTAAGT
GTTCTTTGCTGACCTCAGTGACTTTTGGCTCTGGGAAAGACAAGGATTACCTGGATGAATCTGA
ACATGCCAACTATGATCGATCTCGTCTCCTTAATGACTTTGTTACCAAAGATAAGCCTGCATCCAAGACA
AAGCTGTCTAAGAATGACATGAGTTACATAGCATCTAGTGGACTCTTATTCAAAGATGGCAAAAAGCGAA
TTGATTACATCCTGGTTTATCGAAAAACAAATATAACAATATGATAAAAAGAAACACATTTGAAAAGAACCT
GAGAGCAGAAGGCTTGATGTTGGAGAAGGAGCCAGCAATTGCCAACCCGACATCATGTTTATTAATAAT
CACATTCATGGGACACACTGTGCAAGTATGCAGAGAGGCTGAACATCAGGGTGCCTTCAGGAAGAAAT
GTTACTATACTGACCAGAAGAACAATCAAAGAGCAGGGTACAAAATTTCAAAGAATCAAAAAATG
GATGTCCCAAAACCAATGGTCTTGACAAGTCAGCGTTTCCAGAGCTGGAGGAGTGGACTGCTATACT
GGACCTTCAGCAGAGCTAGGATTCACCCTTCATAATAACAATAAGGACACCTTCTTCAGCAATGCTA
CTCGAAGCAGGATAGTTTATCACATGCTGGAACGCACCAAAATATGAAAATGGAATATCAAAGTGGGTAT
CCGTAAGCTTATCACTAATGGTTCATACATAGCAGCATTTCACCCACATGAGGGAGCCTACAAGAGTAGC
CTTCCGATCAAACCCATGGACCTCAGAATAACAGGCATCTGTTGTATGAGCGCTGGGCACGCTGGGAA
TGTGGTACAAGCATCAGCCTCTGGACTTAATCAGGATGTACTTTGGTGAAGATTGGCTTATACTTCGC
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AAAAGGAGAAGAAGCATTCTGACTTACACTTGGGACCTTATTGAATGGGAAGAAGAGGAGGAAACACTTC
 GCCCCAGTTTGAAGCAAAATATTACAGGATGGAGGTAATAAACCCCATCACGGGAAGCCTGAGCCTCA
 TCAGCCTTCATCCGACAAAGTCACGCGACTTCTTGTGTCTGTCTCAGGAATCTTCTTCATGATCTCCTTG
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 CATGCTGCTGAATCTTGCTTATGAAAAAATGCATACCTCCTCACTAAGTATAAATCCTCGAAGTAA
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 CCGAGACTATAGAGGCCACCTTGGAGTTCAAAACCTATGAATTCACCTTACAGTACTGGCACATCCTG
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 TGATTCCTGATATACAAAGGGCCTCCGTGAGCGCATACGGCGAGAGAAATCTTGGTCCAGGAAATGAT
 GTATGAGGCTGAAGTGAACATTTACAACAACAGAGAAGAAAAGTGGTCAGCCTATTACCATGAATGG
 CCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence:

>MR223701 representing NM_001128103
 Red=Cloning site Green=Tags(s)

MVHHSGISQSFQKQKGMNISKSEITTEASLKPSRRSLPCLAQSYAHSKSLSQSASLFQSTESSESQAPTSV
 TFLSADKPEHVTSESRKSTLKCFSADLSDFCLALGKDKDYLDSEHANYDRSLLNDFVTKDKPASKT
 KLSKNDMSYIASSGLLFKDGKKRIDYILVYRKTNIQYDKRNTFEKNLRAEGLMLEKEPAIANPDIMFIKI
 HIPWDTLCKYAERLNIRVPFRKKCYTDQKNKSKSRVQNYFKRIKKWMSQNPMLVDKSAFPELEESDCYT
 GPF SRARIIHFI INNKDTFFSNATRSRIYHMLERTKYENGI SKVGIRKLI TNGSYIAAFPPEGAYKSS
 LPIKTHGPQNNRHLLYERWARWGMWYKHQPLDLIRMYFGEKIGLYFAWLGWYTGMLIPAAYVGLCVFFYG
 LVTMNESQVSQEI CKATEVFMCP LCKNCSLQRLNDSCIYAKVTYLF DNGGTVFFAIFMAIWATVLEFW
 KRRRSILTYTWDLIEWEEEEETLRPQFEAKYYRMEVINPITGKPEHPQSSDKVTRLLVSVSGIFFMISL
 VITAVFAVVVYRLVVMQFASFKNFVKQHWQFATSGAAVCINFIIIMLLNLAYEKIAYLLTNLEYP RTE
 SEWENSFALKMFLFQFVNLNSSIFYIAFFLGRFVGHPGKYNKLFERWRLEECHPSGCLIDLCLQMGVIMF
 LKQIWNFMELGYPLIQNWSRHKIKRGIQDASIPQWENDWNLQPMNIHGLMDEYLEMVLQFGFTTIFVA
 AFPLAPLLALLNNIIIEIRLDAYKFVTQWRRPLPARATDIGIWLGI LEGIGILAVITNAFVIAITSDYIPR
 FVYEYKYGPCANHVKNENCLKGYVNNLSFFDLSELGMKSGYCRYRDRGPPWSSKPYEFTLQYWHIL
 AARLAFIIVFEHLVFGIKSFIAYLIPDIPKGLRERIRREKYL VQEMMYEAELEHLQQRRKSGQPIHHEW
 P

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001128103

ORF Size: 2943 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.

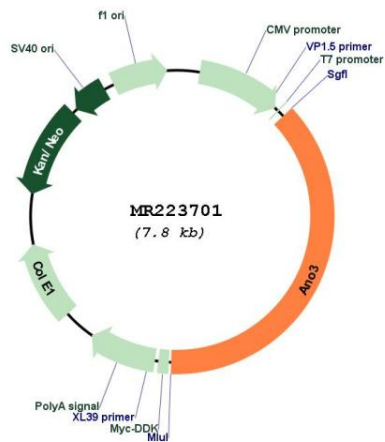
RefSeq: [NM_001128103.2](#), [NP_001121575.1](#)

RefSeq Size: 6026 bp

RefSeq ORF: 2946 bp
 Locus ID: 228432
 UniProt ID: [A2AHL1](#)
 Cytogenetics: 2
 MW: 115 kDa

Gene Summary: Has calcium-dependent phospholipid scramblase activity; scrambles phosphatidylcholine and galactosylceramide (PubMed:23532839). Does not exhibit calcium-activated chloride channel (CaCC) activity (PubMed:23532839). Seems to act as potassium channel regulator and may inhibit pain signaling; can facilitate KCNT1/Slack channel activity by promoting its full single-channel conductance at very low sodium concentrations and by increasing its sodium sensitivity (PubMed:23872594).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223701