

Product datasheet for **MR231401**

Ano6 (NM_001253813) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ano6 (NM_001253813) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ano6
Synonyms:	2900059G15Rik; AA407480; AW554778; F730003B03Rik; Tmem16f
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR231401 representing NM_001253813
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGATGATGACTAGGAAGTCTGTGTAACATGGAGCTGGAGGAGGACGACGATGAGGATGGAGACA
 TTGGTGATGTTCTGACTCCAGGAGCCCTTTCTGGCTCCTCATCTCCTCTACCATCCGGTCTGGTGCT
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AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231401 representing NM_001253813
 Red=Cloning site Green=Tags(s)

MQMMTRKVLNMLEEEDDEDGDIGDVPDSRRPFLAPHTPLPSGLVLENFDQTI VCP TFGSLENQQDFRT
 PEFEEFNGKPD SLFF TDGQRRIDFILVYEDESKKENNKG TNEKQKRKRQAYESNLICHGLQLEATRSVS
 DDKLVFVKVHAPWEVLCTYAEIMHIK LPLKPNDLKTRSPFGNLNWF TKVLRVNESVIKPEQEFFTAPFEK
 SRMNDFYILDRDSFFNPATRSRIYVYF ILSRVKYQVMNNVKNKFGINRLVSSGIYKAAFPLHDCRFNYESED
 ISPCPSERYLLYREWAHPRS IYKQPLDLIRKYGGEKIGIYFAWLGYTQMLLLAAVVGACFLYGYLDQD
 NCTWSKEVCDPDI GGQILMCPQC DRLCPFWRLNITCESSK KLCIFDSFGTLIFAVFMGVWVTLFLEFWKR
 RQAELEYEWDTVELQ QEEQARPEYEAQC NHVVINEITQEEERIPFTTCGKCIRVTLCASAVFFWILLIIA
 SVIGIIYVRLSVFIVFSTTL PKNPNGTDP IQKYLTPQMATSITASIISFIIIMILNTIYEKVAIMITNFE
 LPRTQTDYENSLTMKMLFQFVNYSSCFYIAFFKGFVGYPGDPVYLLGKYRSEECDPGGCLLELTTQL
 TIIMGGKAIWNNIQEVLLPWVMNLIGRYKRVSGSEKITPRWEQDYHLQPMGKLG LFYEYLEMIIQFGVVT
 LVASFPLAPLLALVNNILEIRVDAWKLTTQFRRMVPEKAQDIGAWQPI MQGIAILAVVTNAMIIFTSD
 MIPRLVYYWSFSIPPYGDHTYYTMDGYINNTLSVFNITDFKNTDKENPYIGLGNVTLCRYRDFRNP GHP
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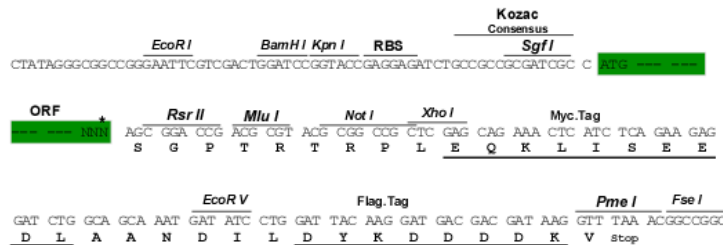
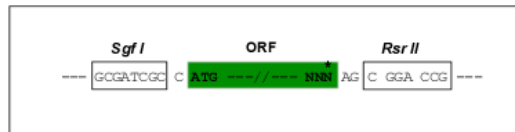
SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

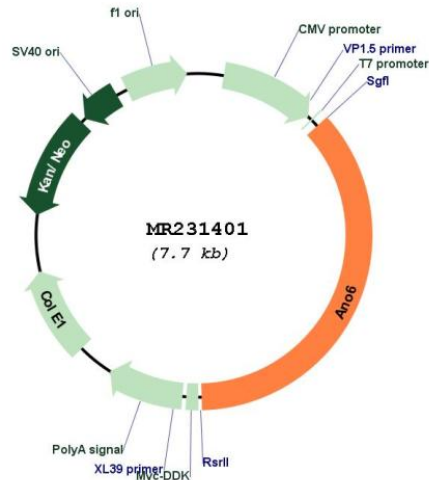
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001253813

ORF Size: 2796 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_001253813.1](#), [NP_001240742.1](#)

RefSeq Size: 5725 bp

RefSeq ORF: 2799 bp

Locus ID: 105722

UniProt ID: [Q6P9J9](#)

Cytogenetics: 15 E3-F1

MW: 108.9 kDa

Gene Summary: Small-conductance calcium-activated nonselective cation (SCAN) channel which acts as a regulator of phospholipid scrambling in platelets, osteoblasts and fetal thymocytes. Phospholipid scrambling results in surface exposure of phosphatidylserine which in platelets is essential to trigger the clotting system whereas in osteoblasts is essential for the deposition of hydroxyapatite during bone mineralization. Has calcium-dependent phospholipid scramblase activity; scrambles phosphatidylserine, phosphatidylcholine and galactosylceramide. Can generate outwardly rectifying chloride channel currents in airway epithelial cells and Jurkat T lymphocytes.[UniProtKB/Swiss-Prot Function]