

Product datasheet for **MG219830**

Ano3 (NM_001081556) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ano3 (NM_001081556) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ano3
Synonyms:	AI838058; B230324K02Rik; Tmem16c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219830 representing NM_001081556
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTCCACCCTCAGGCTCCATTCAGTCTTTAAACAGCAAAAAGGTATGAATATAAGCAAAAGTGAGA
 TAACAACTGAAGCGTCATTAACCCTAGGAGATCCCTGCCTTGCCTGGCCAGAGCTATGCTCATT
 AAAAAGCTTGAGTCAATCTGCTTCACTGTTTCACTCAACTGAGAGTGAATCTCAGGCTCCAATCTGT
 ACATTTCTTTCTGCTGATAAGCCTGAACATGTTACTTCGGAGGAGAGTAGAAAGGACTCTACCTTAAGT
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 CTTCCGATCAAACCCATGGACCTCAGAATAACAGGCATCTGTTGTATGAGCGCTGGGCACGCTGGGGAA
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 GGAATTCGTCAAACAGCACTGGCAGTTTGTCTACATCTGGTGTCTGTCTGTATCAATTCATAATCAT
 CATGCTGCTGAATCTTGCTTATGAAAAATTGCATACCTCCTCACTAACTTAGGTAAGTTCATTTCTCT
 ATTTTACTTGTAGTAAGTAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219830 representing NM_001081556
 Red=Cloning site Green=Tags(s)

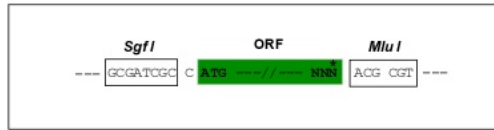
MVHSGSIQSFKQKGMNISKSEITTEASLKPSRRSLPCLAQSYAHSKLSQSASLFQSTESSESQAPTSV
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 GPF SRARIHFFI INNKDTFFSNATRSRIVYHMLERTKYENGISKVGIRKLITNGSYIAAFPPEHAYKSS
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 LVTMNESQVQSIECKATEVFMCLCDKNCSLQRLNDSCIYAKVTYLFDNGGTVFFAIFMAIWATVFLFVW
 KRRRSILTWTDLIEWEEEEELRPQFEAKYYRMEVINPITGKPEHPQSSDKVTRLLVSVSGIFFMISL
 VITAVFAVVVYRLVVMQFASFKNFVKQHWQFATSGAAVCINFIIIMLLNLAYEKIAYLLTNLGFIFL
 ILLVVS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001081556

ORF Size: 1911 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_001081556.1](#), [NP_001075025.1](#)

RefSeq Size: 2304 bp

RefSeq ORF: 1914 bp

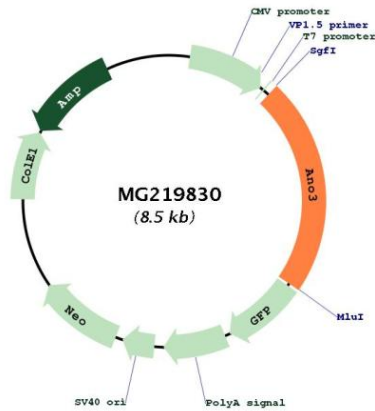
Locus ID: 228432

Cytogenetics: 2

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 MG219830