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Product datasheet for MR231263

Ano5 (NM_001271879) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ano5 (NM_001271879) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ano5
Synonyms:	9330162L24; Gdd1; Tmem16e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>MR231263 representing NM_001271879
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGAGCAGGAAGGCTTAACAGCCAAAGAAATAGACTATGCTTTCCAACAGAATGAGAACCTGGGCT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231263 representing NM_001271879
Red=Cloning site Green=Tags(s)

MVEQEGLTAKEIDYAFQQNENLGSKETSFLIPEDLQSPFQRSEHSKDSVFFRDGIRQIDFVLSYVEDLKK
DGELKAERRREFEQNLRKTGLDLETEDKLNSEDGKTYFVKIHAPWEVLVTYAEVLGIKMPIKLSDIPRPK
YPPLSYMLGAVKLPSSVKYPTPEYFTAQFSRHRQELFLIEDEATFFPSSTRNRIVYYILSRCPFGVEEGK
KKIGIERLLNSNTYLSAYPLHDGQYWKPSKTTRPNERYNLCKNWARFSYFYKEQPFHLIRNYFGEKIGIY
FVFLGYYTEMLLFAALVGLACFIYGLLSMENNRTSTEICDPDIGGQMIMCPLCDEVCDYWRLNTTCLHSK
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KEMEPHMPLCHRIPWYFVSGTTVTFGMALLLSSMVSILIYRLSVFATFASFMESEATLQSVKSFFTPQLA
TALSGSCLNCIVILILNFFYEKISAWITKMGKFVGYPGSYTYMFNIWRSEECGPAGCLIELTTQLTIIMI
GKQIFGNIHEAFQPLIFNWWRRRRARTHSEKLYSRWEQDHDLQVYGHRGLFYEYLETVIQFGFATLFVAS
FPLAPLFALMNNIMGIRVDAWKLTTQYRRPVAAKAHSIGVWQDILFGMAIVSVATNAFIVSFTSDIIPRL
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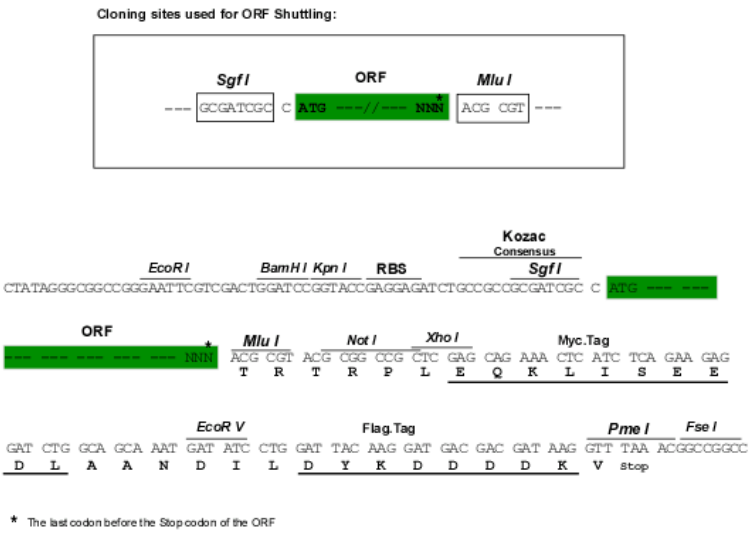
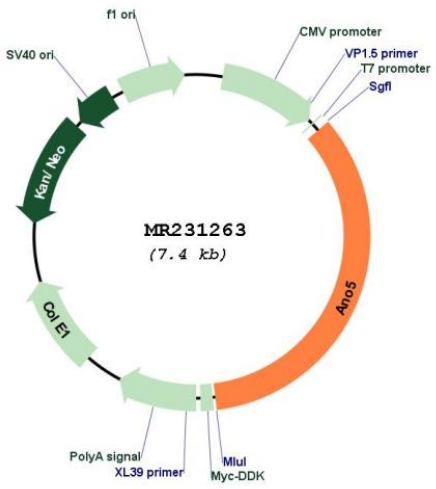
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001271879
ORF Size:	2562 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_001271879.1, NP_001258808.1
RefSeq Size:	7633 bp
RefSeq ORF:	2565 bp
Locus ID:	233246
UniProt ID:	Q75UR0
Cytogenetics:	7 B4
MW:	100.4 kDa
Gene Summary:	This gene encodes a member of the anoctamin family, which in mammals is comprised of 10 members. Anoctamin proteins are proposed to have eight transmembrane domains with both termini facing the cytoplasm and a C-terminal domain of unknown function. While some members have been characterized as calcium-activated chloride channels, this protein is reported to have little anion conductance activity. Elevated levels of this protein were found in dystrophic mice. In humans, mutations of this gene are associated with with musculoskeletal disorders such as myopathies, muscular dystrophy and gnathodiaphyseal dysplasia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]