

Product datasheet for RC214843

Anoctamin 7 (ANO7) (NM_001001666) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Anoctamin 7 (ANO7) (NM_001001666) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Anoctamin 7
Synonyms: D-TMPP; DTMPP; IPCA-5; IPCA5; NGEP; PCANAP5; PCANAP5L; TMEM16G
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC214843 representing NM_001001666
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGAATGGCTGCCACTGCCTGGGCGGGGCTCCAAGGGCCACCCTCCCCACCCTCTGTCCCGCAGTGA
 GGACGGGACTCTACTGCCGAGACCAGGCTCACGCTGAGAGGTGGCCATGACCTCCGAGACCTCTCCGG
 AAGCCACTGTGCCAGGAGCAGGATGCTGCGGGCAGGGCCAGGAAGAGGACAGCACCGTCTGATCGAT
 GTGAGCCCCCTGAGGCAGAGAAGAGGGGCTCTTACGGGAGCACAGCCACGCCTCGGAGCCAGGTGGAC
 AGCAAGCGGCCCGCTGCAGAGCTGGGAGTCTGCCAAGCCCCGGATCGACTTCGTCCTCGTTTGGGAGGA
 GGACCTGAAGCTAGACAGGCAGCAGGACAGTGGCCCGGGACAGAACAGACATGCACAGGACCTGGCGG
 GAGACTTTTCTGGATAATCTTCGTGCGGCTGGGCTGTGTGAGACCAGGTACGTGGAGGCTGCATGGGG
 AGGGCCCTAGGCCCTGCATCCACTCAGTGACCCATGACCTTGCCGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214843 representing NM_001001666
 Red=Cloning site Green=Tags(s)

MRMAATAWAGLQGPPLPTLCPAVRTGLYCRDQAHAERWAMTSETSSGSHCARSRLRRAQEEDSTVLID
 VSPPEAEKRGSYGSTAHASEPGGQAAACRAGSPAKPRIDFVLVWEEDLKLDRQQDSAARDRTDMHRTWR
 ETFLDNLRAGLCVDQVRGGCHGQGRPCIHVTHDLAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_001001666

ORF Size: 537 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001001666.3](#), [NP_001001666.1](#)

RefSeq Size: 916 bp

RefSeq ORF: 378 bp

Locus ID: 50636

UniProt ID: [Q6IWH7](#)

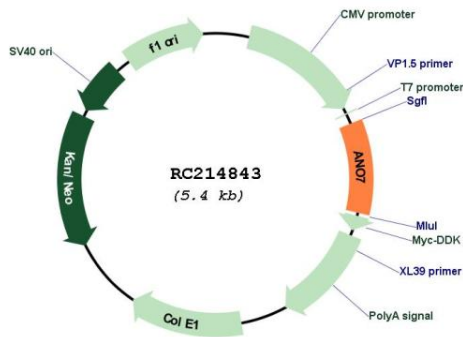
Cytogenetics: 2q37.3

Protein Families: Transmembrane

MW: 19.6 kDa

Gene Summary: This prostate-specific gene encodes a cytoplasmic protein, as well as a polytopic membrane protein which may serve as a target in prostate cancer diagnosis and immunotherapy. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC214843