

Product datasheet for **MR220322**

Ano7 (NM_207031) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ano7 (NM_207031) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ano7
Synonyms:	IPC; NG; NGE; Ngep; Ngep-L; Pc; Pcanap5; Tmem16g
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220322 representing NM_207031
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCGGGGGCAAGCGGAGAAGAAGACAGCGTGGTGTGATCGACATGGCCTCCCCTGAAGCAGGGA
 ATGGATGCTCCTATGGGAGCACAGCCCAAGCCTCAGAGGCAGGTAACAGCAGGTGGCCCCAGCAGAGT
 TGGGAGCTCTGCCAAACCCCAATTGATTTTGTCTTGTTTGGGAAGAAGACCTGAGGAACCAAGAGAAC
 CCCACGAAGGACAAGACAGACACACAGAGGTCTGGCGGGAGACTTTTCTGGAGAATCTTTGCTTGGCTG
 GCCTGAAAATAGATCAGCATGATGTCCAGGATGAGGCCGCTGCAGTTCATTACATCCTCCTCCGCGCACC
 CTGGGCTGTGCTTTGCTACTATGCAGAAGACCTGCGCCTGAAGCTGCCTCTACAGGAGTTACCCAACCG
 GCCTCCAAGTGGTCAGCCACCCTTCTGGAGTGGCTGGGCATCCCCAATATCCTGCTGGAGCACGTGCCTG
 ACACGCCCCCGAGTATTACTCCTGCCAGTTCAAAGCAAGCAAGCTGCAATGGTTTCTTGGGAGTGACAA
 CCAAGACACCTTCTTACCAGCACCAAGAGGCATCAGATTCTATTTGAGATCCTGGCCAAGACTCCATAT
 GGGCACGAGAAGAAAGGCCCTGTTGGGATTGACCAGCTGCTGGCAGAAGGTGATTACAGTGCAGCCTTCC
 CTCTGCATGACGGCCATTCTCTGCAGTCCCAGAGAGCTCACAGGTCTGGGTCTCATCCAACGCCAAGT
 CTTATCCAGCACTGGGCTCGCTGGGGCAAGTGGAAACAAGTACCAGCCATTGGACCATGTGCGAAGGTAC
 TTCGGGGAGAAGGTGGCTCTCTACTTCGCTGGCTTGGGTTTTACTGTTGGCTCCTGCCTGCGGCAG
 TAGTGGGCACAGTGGTCTTCTGGTGGGATGTTTCTGGTGTCTCAGACATACCAACGCAGGAGCTGTG
 TCACAGCTCAGACAGCTTCGACATGTGCCCGCTGTGCTCCGACTGTTCTTTTGGCTGCTCTCAGTGCC
 TGCACCTGGCCAGGCTGGGCGGCTCTCGACCATGGCGGACCGTCTTCTTCAAGTTGTTTTCATGGCAC
 TGTGGGCGGTGCTTCTGGAGTACTGGAAGCGGAAAAACGCCACATTGGCCTACCGCTGGGACTGTTT
 TGACTATGAAGACATTGAGGAGAGGCCCTCGGCCCAAGTTCGCTGCAACGGCCCCATGACAGCCCTGAAC
 CCCATCACGGGGGAAGATGAGCCCTACTTCTGAGAAGAATCGTGTACGCCGATGCTGGCTGGTCTG
 TGGTGTCTTGATGATGGTGGCTGTGGTATTATGTGCCTTGATCTGTATCCTGTACCGGGCCGTCAT
 GGCTATCATTGTGCCAGGTGAGACAACGCCTTCTCTGCCTGGGCTTACGGATTGCCAGCCTCACA
 GGGTCAGTGGTGAACCTTGTCTTCTCATCCTCATCCTTCCAAGGTCTATGTGCTCCTGGCCAGGCTCTAA
 CAAGATGGGAGATGCACCGGACACAGCCGAGTTTGGAGTGCCTTACCCTCAAGGTGTTTCTTCCAA
 GTTTGTGAATTTCTACGCTCGCCGTGTATATCGCCTTCTTCAAGGGCAGGTTTGTGGGATACCCGGG
 AACTACCACACCTTGTGGAAATCCGAAATGAGGAGTGTCCAGCTGGAGGCTGCCTCAGTGCAGTGGCAC
 AGGAGCTCCTGGTCATCATGGTGGGCAAGCAGATCATCAATAACGTGCAGGAGGTTCTTGTCCAAAGCT
 GAAAGGCTGCTGGCAGAAGTTCTCCAGGGGCAAGAAGGCTGGCACGGGGACCCACCCAGCACCTTGGGAG
 GCCGACTATGAGTTGCTGCCTTGTGAGGGGCTGTTTACGAATACCTTGAATGGTGTGAGTTTGGAT
 TCGTCACCATCTTCGTAGCTGCCTGCCCGCTGGCGCCGCTTTTGGCCCTACTCAACAACCTGGGTGGAGT
 CCGCTAGATGCGCGCAAGTTCGTGTGCGAGTATCGGCGCCAGTGGCGGAGCGCGCCAGGACATCGGC
 ATCTGGTTCCACATCCTAACGGGCTCACACACCTCGCGGTATCAGCAATGCCTTCTGCTGGCCTTCT
 CCTCCGACTTCTGCCAGTGTCTACTACAGCTGGACGCACGCCCTGACCTGCATGGCTTCTCAATTT
 CACGCTGGCAGCAGCACCGCCACTTTCACCTCCGCACACAACCGCACTTGCAGGTACCGGGCTTCCGG
 GATGATGATGGACACTATTCTCCGACTTACTGGACTCTCCTGGCCATCCGCTGGCCTTTGTCATCGTAT
 TTGAGCATGTGGTGTCTCCATTGGCCGTGTTCTGGATCTTGGTTCTGACATCCCAGAATCCGTGGA
 GATCAAGGTGAAGCGGAATACTATTTAGCTAAACAAGCACTGGCTGAGAACGAGGCTCTCCTTGGAGCA
 ACAGGAGTGAAGGATGACCAACCTCAAGTTCAGAGCCAGCCTGGGTCTTCCAGCC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220322 representing NM_207031
 Red=Cloning site Green=Tags(s)

MLRGQAREEDSVVLIDMASPEANGCSYGSTAQASEAGKQQVAPSRVGS SAKPPIDFVLVWEEDLRNQEN
 PTKDKTDTHEVWRETFLENLCLAGLKIDQHDVQDEAAAVHYILLRAPWAVLCYYAEDLRKLPLQELPNQ
 ASNWSATLLEWLGIPNILLEHVPDTPPEYYSCQFKASKLQWFLGSDNQDTFFSTKRHQILFEILAKTPY
 GHEKGLFGIDQLLAEGVFSAAFPLHDGPFSAVPESQVLGLIQRQVLFQHWARWGKWNKYQPLDHVRRY
 FGEKVALYFAWLGFYTGWLLPAAVVGTVVFLVGCFLVFSDIPTQELCHSSDSFDMCPLCSDCSFWLLSSA
 CTLAQAGRLFDHGGTVFFSLFMALWAVLLEWYWRKNATLAYRWDCSDYEDIEERPRPQFAATAPMTALN
 PITGEDEPYFPEKNRVRRLAGSVVLLMMVAVVIMCLVSVILYRAVMAIIVSRSDNAFLSAWASRIASLT
 GSVVNLVFIILSKVYVLLAQVLTRWEMHRTQTEFEDAF TLKVFIFQVNFYASPVYIAFFKGRFVGYPG
 NYHTLFGIRNEEC PAGGCLSELAQELLVIMVGQIINNVEVLV PKLKGCVQKFSRGKKAGTGTHPAPWE
 ADYELLPCEGLFHEYLEMV LQGFVTIFVAACPLAPL FALLNNWVEIRLDARKFVCEYRRPVAERAQDIG
 IWFHIL TGLTHLAVISNAFL LAFSSDFLPRVYYSWTHAPDLHGFLNFTLARAPPTFTSAHNRTCRYRAF R
 DDDGHYSPTYWTL LAIRLAFVIVFEHVFSIGRVL DLLVPDIPESVEIKVKREYLLAKQALAEENEALLGA
 TGVKDDQPPSSEPSLGLPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

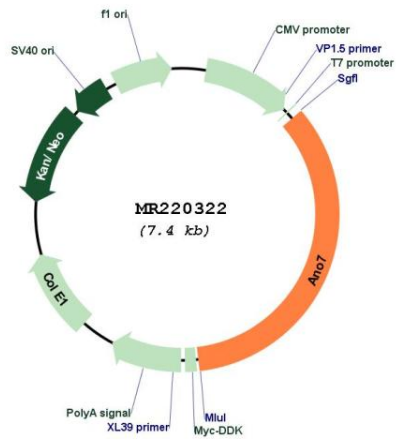
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_207031
ORF Size:	2577 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:	<ol style="list-style-type: none">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_207031.2 , NP_996914.1
RefSeq Size:	3217 bp
RefSeq ORF:	2580 bp
Locus ID:	404545
UniProt ID:	Q14AT5
Cytogenetics:	1 D
MW:	97.6 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. In humans, this protein is primarily found in prostate tissues and may serve as a target for prostate cancer immunotherapy. Alternative splicing results in multiple transcript variants that encode different isoforms. [provided by RefSeq, Dec 2012]

Product images:



Circular map for MR220322