

Product datasheet for **SC300328**

Anoctamin 7 (ANO7) (NM_001001891) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Anoctamin 7 (ANO7) (NM_001001891) Human Untagged Clone
Tag: Tag Free
Symbol: Anoctamin 7
Synonyms: D-TMPP; DTMPP; IPCA-5; IPCA5; NGEP; PCANAP5; PCANAP5L; TMEM16G
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001001891 edited
 ATGCGAATGGCTGCCACTGCCTGGGCGGGGCTCCAAGGGCCACCCCTCCCCACCCTCTGT
 CCCGCAGTGAGGACGGGACTCTACTGCCGAGACCAGGCTCACGCTGAGAGGTGGCCATG
 ACCTCCGAGACCTCTTCCGGAAGCCACTGTGCCAGGAGCAGGATGCTGCGGCGACGGGCC
 CAGGAAGAGGACAGCACCGTCTGATCGATGTGAGCCCCCTGAGGCAGAGAAGAGGGGC
 TCTTACGGGAGCACAGCCACGCCTCGGAGCCAGGTGGACAGCAAGCGGCCGCTGCAGA
 GCTGGGAGTCTGCCAAGCCCCGGATCGACTTCGTCTCGTTTGGGAGGAGACCTGAAG
 CTAGACAGGCAGCAGGACAGTGCCGCCCGGGACAGAACAGACATGCACAGGACCTGGCGG
 GAGACTTTCTGGATAATCTTCGTGCGGCTGGGCTGTGTGTAGACCAGCAGGACGTCCAG
 GACGGGAACACCACAGTGCACACTACGCCCTCCTCAGCGCCTCCTGGGCTGTGCTCTGCTAC
 TACGCCGAAGACCTGCGCCTGAAGCTGCCCTTGCAGGAGTTACCCAACCAGGCCTCCAAC
 TGGTCCGCGCGCCCTGCTGGCATGGCTGGGCATCCCAACGTCCTGCTGGAGGTTGTGCCA
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 GGGAGTGACAACCAGGACACCTTCTTACAAGCACCAAGAGGCACCAAATCTGTTTGAG
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 CTGGCAGAGGGTGTCTCAGTGCCGCTTCCCCCTGCATGACGGCCCCCTCAAGACGCC
 CCAGAGGGCCCGCAGGCTCCACGCCTCAACCAGCGCCAAGTCCTTTCCAGCACTGGGCG
 CGCTGGGGCAAGTGGAACAAGTACCAGCCCTGGACCAGTGCAGGTACTTCGGGGAG
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 TTCTGGCTGCTCTCCAGCGCTGTGCCCTGGCCAGGCCGGCGGCTGTTCCGACCACGGC
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 AAGCGGAAGAGCGCCACGCTGGCCTACCGCTGGGACTGCTCTGACTACGAGGACACTGAG
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 GGTGAGGACGAGCCCTACTTCCCTGAGAGGAGCCGCGCGCCGATGCTGGCCGGCTCT
 GTGGTATCGTGGTATGGTGGCCGTGGTGGTCATGTGCCTCGTCTATCATCCTGTAC



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CGTGCCATCATGGCCATCGTGGTGTCCAGGTCCGGCAACACCCCTTCTCGCAGCCTGGGCC
 TCTCGCATCGCCAGCCTCACGGGTCTGTAGTGAACCTCGTCTTCATCCTCATCCTCTCC
 AAGATCTATGTATCCCTGGCCACGTCCTGACACGATGGGAAATGCACCCGACCCAGACC
 AAGTTCGAGGACGCCTTCACCCTCAAGGTGTTTCATCTCCAGTTCGTCAACTTCTACTCC
 TCACCCGTCTACATTGCCTTCTCAAGGGCAGGTTTGTGGGATACCCAGGCAACTACCAC
 ACCTTGTTTGGAGTCCGCAATGAGGAGTCCGCGCTGGAGGCTGCCTGATCGAGCTGGCA
 CAGGAGCTCCTGGTCATCATGGTGGCAAGCAGGTCATCAACAACATGCAGGAGGTCCTC
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 GCGCACAACCGCAGTGCAGGTATCGGGCTTTCGGGATGACGATGGACATTATCCAG
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 CCTTTTGTCTTGCCTTCCCTCCCTCTCCAGCTCCTGGCCCTGGCCAGGGCC
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 GGAGGTTTTGGGATGAGAGGAGGAAACGTGTATACCTGTAACATCTGGTGGCTCTTCCCC
 CAGAAGTTTGTGTTACATAAATTGTTTTCCACGCTGGATCATAATGTGACGTGACGTT
 CTGCCCTGTGTGGGAGCCACATGAAGCTTCCCTGGCTAACTGCTACCCCGCAGCAA
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 TGGAGTTCTACAAGTGGAACTTAAGTGTCAAAAAGAATATGTGGTTTTTGTAGCTGAGCGTG
 GTGGCTCACACCTGTAATCCAGGACTTTGGGAGGCTGAGGCAGGAGGATTACAAGGTCA
 GGAGTTCCGGGACTAGCCTGTCCAACATGGTGAACCCTGTCTTTACTAAAAATGCAAAAA
 TTAA
 A

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001001891 unedited</p> <pre>CGACTACATATTGNATACACTCACTATAGGCGGCCGAATTCGGCACGAATGCGAATGGC TGCCACTGCCTGGGCGGGGCTCCAAGGCCACCCCTCCCCACCCTCTGTCCCAGTGAGG ACGGGACTCTACTGCCGAGACCAGGCTCACGCTGAGAGGTGGGCCATGACCTCCGAGACC TCTTCCGGAAGCCACTGTGCCAGGAGCAGGATGCTGCGGCACGGGCCAGGAAGAGGAC AGCACCCTCCTGATCGATGTGAGCCCCCTGAGGCAGAGAAGAGGGGCTTTACGGGAGC ACAGCCCACGCCCTCGGAGCCAGGTGGACAGCAAGCGGCCCTGCAGAGCTGGGAGTCCT GCCAAGCCCCGGATCGACTTCGTCTCGTTTGGGAGGAGACCTGAAGCTAGACAGGCAG CAGGACAGTGCCGCCGGACAGAACAGACATGCACAGGACCTGGCGGGGAGACTTTTCT GGATAATCTTCGTGCGGCTGGGCTGTGTGTAGACCAGCAGGAACCTCCAGGACGGGAACA CCACAAGTGCACTACGCCCTCTCAACGCCTTCTGGGCTGTGCTCTGCTACTTCCCCAAA AACTTGAGCCTGAACCTGCCCTTGCAAGGATTACCCAACCCGACCTTCCACTGGGATCGA CCGGCCTTGTGGCATGGACTGGGAAATTACCATAACAACCTGATTGAAGGTATGTGCCAA ACCTACCCCCGAAAACCTCTTCTACCAGGTAAGAAAAGAAAAACAAACCTACACCCACC TCCATAATAGTGGGTCAAACCAGAACCTCTTTTAAACCAGACACCCAGTTAGTACAAA TAATAGAATGAAATTCCTGAAAAAATATCCAATAAAGAAACAATAAAAAAAAAACTAT GTGGGATATCCCCATATCTTAACAAACGGATAT</pre>
3' Read Nucleotide Sequence:	<p>>Forward primer walk for NM_001001891 unedited</p> <pre>CCCACATTCAGGACATGCCCGACGGTAGGCAGCGTGGCGCTCTTCGGCTTCCGACTCCA GCAGCAGCACGGCCAAAGTGCCATGAACAAGCTGAAGAACACGGTGCCCGCTGGTTCGAA CAGCCGGCCGGCCTGGGCCAGGGCACAGGCGCTGGAGAGCAGCCAGAAAGGGCAGTCGAG GCAAAGTGGGCACATCTCGAAGCTGTCTTGTGTCACACAGTTCCTGCGTGGGTATGTC TGAGAACACCAGGAAGCAGCCCACCAGGAACACCAGTGTGCCACCCTGCCGCTGGCAG GAGCCAGCCTGTGTAACCCGAGCCAGGCAAGTAGAGGGCCACCTTCTCCCCGAAGTA CCTGCGCACGTGGTCCAGGGGCTGGTACTTGTTCCTTGCCTCCAGCGCCAGTGTCTG GAAAAGGACTTGGCGCTGGTTGAGGCGTGGAGCCTGCGGGCCCTTGGGGGCGTCTTGAA GGGGCCGTCATGCAGGGGAAGGCGCACTGAGGACACCCTCTGCCAGCAGCTGGTGGAT CCCAAGCAGGTTTTTCTTCTCGTGGCCATACGGGGTCTTGCCAGGATCTCAAACAGAAT TTGGTGCCTCTTGGTGTGTGAAGAAGGTGCTCCTGGTTGCTACTCCCGAGGAAGCGTGG CAGCTTGTTCCTCTGAACCGCAGGAGTAGTACTCGGGGGGTACGCTCTGGCACAACCT NCAGCAGGACGTTGGGGATGCCAGCCATGCCAGCAAGCCGGCCAGCAGTTGGNAGCCT GGTTGGGTAACCTCTGCAAAGGCAACTTTCAGCGCAGGCTTTCNGCGTATTAACAGAA</pre>
Restriction Sites:	Please inquire
ACCN:	NM_001001891
Insert Size:	4600 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	There is 2 nucleotide difference between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 2 amino acids.
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_001001891.1](#), [NP_001001891.1](#)

RefSeq Size: 3308 bp

RefSeq ORF: 2802 bp

Locus ID: 50636

UniProt ID: [Q6IWH7](#)

Cytogenetics: 2q37.3

Protein Families: Transmembrane

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]
Transcript Variant: This variant (NGEP-L) represents the longer transcript and encodes the longer isoform (NGEP long).