

Product datasheet for **RC226661**

ANO6 (NM_001142679) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANO6 (NM_001142679) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANO6
Synonyms:	BDPLT7; SCTS; TMEM16F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC226661 representing NM_001142679
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >RC226661 representing NM_001142679
Red=Cloning site Green=Tags(s)

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MKKMSRNVLLQMEEEEDDDGDIVLENLGQTIVPDLGSLQSFHDFRTPFEFEFNGKPDLSFFNDGQRRID
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HIKLP LKPNLKNR S S A F G T L N W F T K V L S V D E S I I K P E Q E F T A P F E K N R M N D F Y I V D R D A F F N P A T R S R
I V Y F I L S R V K Y Q V I N N V S K F G I N R L V N S G I Y K A A F P L H D C K F R R Q S E D P S C P N E R Y L L Y R E W A H P R S I Y K
K Q P L D L I R K Y Y G E K I G I Y F A W L G Y Y T Q M L L L A A V V G V A C F L Y G Y L N Q D N C T W S K E V C H P D I G G K I I M C P Q
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E Y E A R C T H V V I N E I T Q E E E R I P F T A W G K C I R I T L C A S A V F F W I L L I I A S V I G I I V Y R L S V F I V F S A K L P K
N I N G T D P I Q K Y L T P Q T A T S I T A S I I S F I I I M I L N T I Y E K V A I M I T N F E L P R T Q T D Y E N S L T M K M F L F Q F V
N Y Y S S C F Y I A F F K G K F V G Y P G D P V Y W L G K Y R N E E C D P G G C L L E L T T Q L T I I M G G K A I W N N I Q E V L L P W I M
N L I G R F H R V S G S E K I T P R W E Q D Y H L Q P M G K L G L F Y E Y L E M I I Q F G F V T L F V A S F L A P L L A L V N N I L E I R
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T M E G Y I N N T L S I F K V A D F K N K S G N P Y S D L G N H T T C R Y R D F R Y P P G H P Q E Y K H N I Y Y W H V I A A K L A F I I V
M E Y L A L L P R L G H S G M I L A H C N L R L P V D C C M C Y R F V D E I R L L E Q L T S D F I D S L Y Y I F S I S I I S I F F S V T F F
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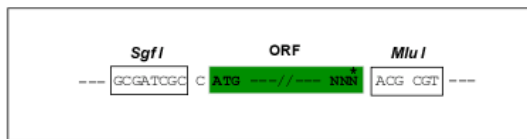
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8006_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



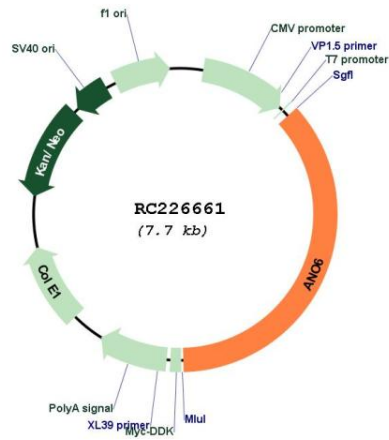
* The last codon before the Stop codon of the ORF

ACCN: NM_001142679

ORF Size: 2787 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_001142679.2
RefSeq ORF:	2790 bp
Locus ID:	196527
UniProt ID:	Q4KMQ2
Cytogenetics:	12q12
Protein Families:	Transmembrane
MW:	107.9 kDa
Gene Summary:	This gene encodes a multi-pass transmembrane protein that belongs to the anoctamin family. This protein is an essential component for the calcium-dependent exposure of phosphatidylserine on the cell surface. The scrambling of phospholipid occurs in various biological systems, such as when blood platelets are activated, they expose phosphatidylserine to trigger the clotting system. Mutations in this gene are associated with Scott syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2011]

Product images:



Circular map for RC226661