

## Product datasheet for **RC210545**

### **ANO6 (NM\_001025356) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ANO6 (NM_001025356) 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:**

>RC210545 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAAAAGATGAGCAGGAATGTTTTGCTACAAATGGAGGAGGAGGAGGACGACGACGATGGGGATATCG  
 TGTGGAAAAACCTTGACAGACAATTGCCCGATTTGGGATCACTGGAAAGTCAGCATGATTTTCGAAC  
 CCCGGAGTTTGAAGAATTAATGAAAAACCTGACTCCCTCTTTTTAATGATGGCCAGCGAAGAATTGAC  
 TTTGTTCTAGTATATGAGGATGAAAGCAGAAAAGAGACCAATAAAAAGGGTACAAATGAAAAACAAAGGA  
 GGAAAAGACAAGCATACGAATCTAACCTTATCTGTCTGCGCTGCAGTTAGAAGCAACAAGATCAGTATT  
 GGATGACAAGCTTGATTTGTAAGTACACGCACCATGGGAGGTGTTATGTACGTATGCTGAGATAATG  
 CACATCAAATTCCTCTGAAACCAATGATCTGAAAAACCGGTCCTCAGCCTTTGGTACTCACTCACTGGT  
 TTACCAAAGTCTCAGTGTAGACGAAAGCATCATCAAGCCAGAGCAAGAGTTTTTACTGCCCATTTTGA  
 GAAGAACCGGATGAATGATTTTTACATAGTTGATAGAGATGCTTCTTCAATCCAGCCACCAGAAGCCGC  
 ATTGTTTACTTCACTCTCTCGGGTCAAGTATCAAGTGATAAACAATGTAGCAAGTTTGGGATCAACA  
 GACTTGTAAACTCTGGGATCTACAAGGCAGCTTCCCCTCCATGATTGCAAATTCGCCGTCAGTCAGA  
 GGATCCCAGCTGCCCTAATGAACGGTACCTTCTGTACAGAGAATGGGCTCATCCTCGAAGCATATACAAA  
 AAGCAGCCCTTGGATCTTATCAGGAAATACTATGGAGAGAAGATTGGAATCTACTTTGCTTGGCTGGGCT  
 ATTACTCAGATGCTTCTCCTGGCCGAGTTGTAGGAGTGGCTTGTCTCTATGGATATCTTAATCA  
 AGATAACTGTACATGGAGCAAAGAAGTTGTATCCTGATATTGGTGGCAAGATCATAATGTGTCCTCAG  
 TGTGATAGCTTTGTCCATTCTGAAACTCAATATTACTTGCAGTCTCAAAGAATTTGTCATCTCG  
 ACAGTTTTGGAACCTGGTCTTTGCAGTATTTATGGGAGTATGGGTTACCTTGTTTTTGGAGTTTTGGAA  
 GCGACGCCAGGCAGAACTTGAGTATGAATGGGATACTGTTGAGTTACAGCAGGAAGAACAAGCCCGACCA  
 GAATACGAAGCAGATGTACTCACGTAGTGATAAATGAGATTACTCAGGAAGAAGAACGCATTCCCTTTA  
 CTGCTGGGAAAATGTATACGGATAACCTCTGTGCCAGTGCTGTCTTTTTCTGGATCCTATTGATCAT  
 CGCTTCAGTTATTGGGATCATTGTCTATAGGCTCTCGGTGTTTATTGATTTTTCTGAAAACTTCCCAAG  
 AACATTAATGGAACAGACCCCAATCCAGAAATACCTGACTCCACAGACAGCCACGTCCATCACGGCTCCA  
 TCATCAGCTTTATAATTATCATGATTCTGAACACCATATGAAAAAGTGGCAATTATGATTACTAACTT  
 CGAACTCCAAGGACCCAGACTGATTATGAGAACAGCCTCACCATGAAGATGTTCTTATTCCAGTTTGT  
 AACTACTACTCTCATGCTTCTACATAGCATTCTTAAAGGGCAAATTTGTAGGCTATCCAGGAGACCCAG  
 TTTATTGGTTGGGAAAATACAGAAATGAAGAGTGTGACCCAGGTGGCTGTCTTCTGAACTGACAACTCA  
 GCTGACAATAATCATGGGAGGAAAAGCAATCTGGAATAACATACAAGAAGTATTATTGCCCTGGATCATG  
 AATCTAATTGGGCGATTTACAGAGTTTCTGGATCAGAAAAGATAACCCACGATGGGAACAGGACTACC  
 ATCTGCAGCCTATGGGCAAACCTGGGATTTTTATGAATATCTTGAAATGATTATTCAGTTTGGGTTCTG  
 CACCTTATTTGTGGCCTTTTTCCACTGGCCCTCTGTTGGCTCTCGTGAACAATATATTGGAAATAAGA  
 GTGGACGCATGGAACTGACCACCCAGTTAGACGCCTGGTACCAGAGAAAGCCCAAGACATTGGAGCAT  
 GGCAGCCCATCATGCAAGGAATAGCAATTCTGGCTGTGGTGACCAATGCCATGATCATAGCTTTCACGTC  
 GGACATGATCCCCCGCTAGTGTACTACTGGTCTTCTCCGTCCTCCCTACGGGGACCACTTCTCTAC  
 ACCATGGAAGGGTACATCAACAACACTCTCCATCTTCAAAGTCGACAGACTTCAAAAACAAAAGCAAGG  
 GAAACCCGTACTCTGACCTGGGTAAACCATACCACATGCAGGTATCGTGATTTCCGATACCCACCTGGACA  
 CCCCCAGGAGTATAAACACAACATCTACTATTGGCATGTGATTGCAGCCAAGCTGGCTTTTATCATTGTC  
 ATGGAGCAGTCACTACTCTGTGAAATTTTTCATTTTATGCAATTCCTGATGTATCAAAACGCACAA  
 AGAGCAAGATCCAGAGAGAAAAATACCTAACCCAAAAGCTTCTTCATGAGAAATCACCTCAAAGATATGAC  
 GAAAAATATGGGGTGATAGCTGAGCGGATGATAGAAGCAGTAGATAACAATTTACGGCCAAAATCAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC210545 protein sequence  
Red=Cloning site Green=Tags(s)

MKKMSRNVLLQMEEEEDDDGDIVLENLGQTIVPDLGSLESQHDFRTPFEFEFNKGPDSLFFNDGQRRID  
 FVLVYEDES RKETNKKGTNEKQRRKRQAYESNLICHGLQLEATRSVLDKLVFVKVHAPWEVLCTYAEIM  
 HIKLPLKPNDLKNRSSAFGLNWF TKVLSVDESIIKPEQEFTAPFEKNRMNDFYIVDRDAFFNPATRSR  
 IYVFILSRVKYQVINNVSKFGINRLVNSGIYKAAFPHDCKFRRQSEDPSCPNERYLLYREWAHPRSIYK  
 KQPLDLIRKYYGEKIGIYFAWLGYTTQMLLLAAVVGACFLYGYLNQDNCTWSKEVCHPDIGGKIIMCPQ  
 CDRLCPFWKLNITCESSKLCIFDSFGTLVFAVFMGVVWTLFLEFWKRRQAELEYEWDTVELQEEEQARP  
 EYEARCHVINEITQEEERIPFTAWGKCIRITLCASAVFFWILLIIASVIGIIVYRLSVFIVFSAKLPK  
 NINGTDP IQYLTPQTATSITASII SFIIIMILNTIYEKVAIMITNFELPRTQTDYENSLTMKMFLQFV  
 NYYSSCFYIAFFKGFVGYGDPVYWLKGYRNEECDPGGCLLELTTQLTIIMGGKAIWNNIQEVLLPWIM  
 NLIGRFHRVSGSEKITPRWEQDYHLQPMGKGLFYEYLEMIIQGFVTLFVASFPLAPLLALVNNILEIR  
 VDAWKLTTQFRRLVPEKAQDIGAWQPI MQGIAILAVVTNAMI IAF TSDMIPRLVYYSFVPPYGDHTSY  
 TMEGYINNTLSIFKVADFKNKSKGNPYSDLGNHTTCRYRDFRYPGHPQEYKHNIYWHVIAAKLAFIIV  
 MEHVIYSVKFFISYAIPDVSKRTKSKIQREKYL TQKLLHENHLKDMTKNMGVIAERMIEAVDNNLRPKSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

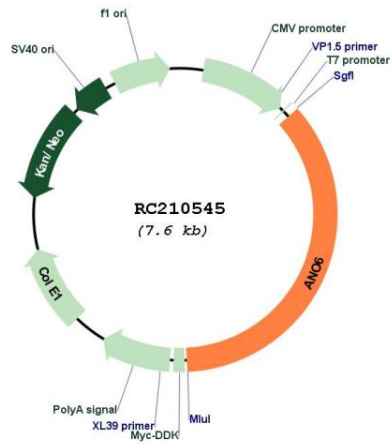
**Cloning Scheme:**



**ACCN:** NM\_001025356

<b>ORF Size:</b>	2730 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001025356.3</a>
<b>RefSeq Size:</b>	6133 bp
<b>RefSeq ORF:</b>	2733 bp
<b>Locus ID:</b>	196527
<b>UniProt ID:</b>	<a href="#">Q4KMQ2</a>
<b>Cytogenetics:</b>	12q12
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	106.2 kDa
<b>Gene Summary:</b>	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 RC210545