

## Product datasheet for **RG226624**

### **ANO6 (NM\_001142678) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ANO6 (NM_001142678) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANO6
Synonyms:	BDPLT7; SCTS; TMEM16F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG226624 representing NM\_001142678  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTTTGTGCTGCTGTGTTGGAAAACCTTGGACAGACAATTGTCCCGATTTGGGATCACTGGAAAGTC  
 AGCATGATTTTCGAACCCGGAGTTTGAAGAATTTAATGGAAAACCTGACTCCCTTTTTTAATGATGG  
 CCAGCGAAGAATTGACTTTGTTCTAGTATATGAGGATGAAAAGCAGAAAAGAGACCAATAAAAAAGGTACA  
 AATGAAAAACAAAGGAGGAAAAGACAAGCATACGAATCTAACCTTATCTGTATGGCCTGCAGTTAGAAG  
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 GTATGCTGAGATAATGCACATCAAATTGCCTCTGAAACCAATGATCTGAAAACCGGTCCTCAGCCTTT  
 GGTACTCAACTGGTTTACCAAAGTCTCAGTGTAGACGAAAGCATCATCAAGCCAGAGCAAGAGTTTTT  
 TCACTGCCCATTTGAGAAGAACCGGATGAATGATTTTTACATAGTTGATAGAGATGCTTCTTCAATCC  
 AGCCACCAGAAGCCGATTGTTTACTTCATCCTCTCTCGGGTCAAGTATCAAGTGATAAACAAATGTTAGC  
 AAGTTTGGGATCAACAGACTTGTAAACTCTGGGATCTACAAGGCAGCTTTCCCACTCCATGATTGCAAA  
 TCCGCCGTCAGTCAGAGGATCCCAGCTGCCCTAATGAACGGTACCTTCTGTACAGAGAATGGGCTCATCC  
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 CATAATGTGCTCAGTGTGATAGGCTTGTCCATTCTGGAACTCAATATTACTTGGAGTCCCTCAAAG  
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 TTGAACCTGACAACCTCAGCTGACAATAATCATGGGAGGAAAAGCAATCTGGAATAACATACAAGAAGTATT  
 ATTGCCCTGGATCATGAATCTAATTGGGCGATTTACAGAGTTTTCTGGATCAGAAAAGATAACCCACGA  
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 GTATCAAAACGCACAAAGAGCAAGATCCAGAGAGAAAAATACCTAACCCAAAAGCTTCTTCATGAGAATC  
 ACCTCAAAGATATGACGAAAAATATGGGGTGATAGCTGAGCGGATGATAGAAGCAGTAGATAACAATTT  
 ACGGCCAAAATCAGAA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – **GTTTAA**

**Protein Sequence:** >RG226624 representing NM\_001142678  
Red=Cloning site Green=Tags(s)

MFCAAVLENLQGTIVPDLGSLESQHDFFRTPEFEFNGKPDLSFFNDGQRRIDFVLVYEDES RKETNKKGT  
 NEKQRRKRQAYESNLICHGLQLEATRSVLDDKL VFKVHAPWEVLCTYAEIMHIKLPKPNLKNRSSAF  
 GTLNNWFTKVL SVDESIKPEQEFTAPFEKNRMNDFYIVDRDAFFNPATRSRIVYFILSRVKYQVINNV  
 KFGINRLVNSGIYKAAFPLHDCKFRQSEDPSCPNERLYLREWAHPRSIYKKQPLDLIRKYYGKIGIY  
 FAWLGYTQMLLLAAVGVACFLYGYLNQDNCTWSKEVCHPDIGGKIIMCPQCDRLCPFWKLNITCESSK  
 KLCIFDSFGTLVFAVFMGVWTLFLEFWKRRQAELEYEWDTVLQEEQARPEYEARCTHVINEITQEE  
 ERIPFTAWGKCIRITLCASAVFFWILLIIASVIGIIVYRLSVFIVFSAKLPKNINGTDPIQKYLTPQTAT  
 SITASIIISFIIIMILNTIYEKVAIMITNFELPRTQTDYENSLTMKMLFQFVNYSSCFYIAFFKGFVG  
 YPGDPVYWLKGYRNEECDPGCLLELTTQLTIIMGGKAIWNNIQEVLLPWIMNLIGRFHRVSGSEKITPR  
 WEQDYHLQPMGKLGLEYELEMIIQGFVTLFVASFPLAPLLALVNNILEIRVDAWKLTQFRRLVPEKA  
 QDIGAWQPI MQIAILAVVTNAMI AFTSDMIPRLVYYWSFSVPPYGDHTSYTMEGYINNTLSIFKVADF  
 KNKSKGNPYSDLGNHTTCRYRDFRYPGHPQEYKHNIYYWHVIAAKLAFIIVMEHVIYSVKFFISYAIPD  
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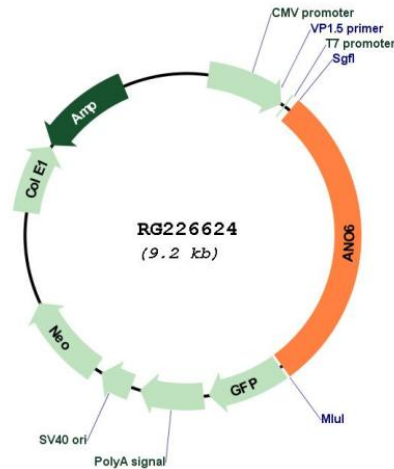
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001142678

**ORF Size:** 2676 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

RefSeq: [NM\\_001142678.2](#)

RefSeq Size: 5980 bp

RefSeq ORF: 2679 bp

Locus ID: 196527

UniProt ID: [Q4KMQ2](#)

Cytogenetics: 12q12

Protein Families: Transmembrane

**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]