

Product datasheet for **RG219501**

ANO9 (NM_001012302) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ANO9 (NM_001012302) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ANO9
Synonyms:	PIG5; TMEM16J; TP53I5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG219501 representing NM_001012302
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCAGGGCGAAGAGAGCCTCCGGATCCTGGTGGAGCCGAAGGGGACAGCTTCCCGCTGATGGAGATCA
 GCACCTGTGAGACCGAGGCCTCCGAGCAGTGGGACTATGTCCTCGTGGCCCAACGTACACCCAGAGAGA
 CCCCCGCGAGGCGCGCAGCAACAGTTCCTGGAGGAGCTCAGGAGAAAGGGCTTCCACATTAAGGTGATC
 CGGGACCAGAAACAGGTCTTCTTTGGGATCCGTGCTGACAACAGTGTCTTTGGCCTGTACCGCACTCTCC
 TCCTGGAGCCTGAGGGGCCTGCCCCACGCCGAGCTGGCCGCGCCGACCACCATCCCGGTACCCAGAG
 TCTCAGAATCCGAATCGTGAACCTCGTTGTATGAACAACAAGACCTCGGCTGGTGGAGACCTTCGAGGAT
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 TGCCCGACATCCCTCAGTCGGTGAAGAACAAGTTCTGGAGGTGAAGTACCAGAGGCTGCGTGAGAAGAT
 GTGGCATGGAAGCAGAGGCTGGGTGGGTGGGGCAGGCTCTCGGCCCAATGCCTGCCATCCCACC
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

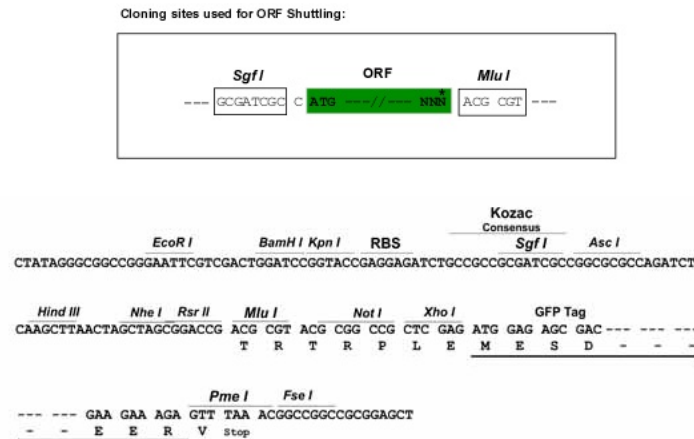
Protein Sequence: >RG219501 representing NM_001012302
 Red=Cloning site Green=Tags(s)

MQGEESLRILVEPEGDSFPLMEISTCETEASEQWDYVLAQRHTQRDPQARQQQFLEELRRKGFHIKVI
 RDQKQVFFGIRADNSVFLYRTLLEPEGPAPHAELAAPTIPVTTSLRIRIVNFVVMNNKTSAGETFED
 LMKDGVFEARFPLHKGEGRLLKKTWARWRHMFREQPVDEIRNYFGEKVALYFVWLGWYTYMLVPAALTGLL
 VFLSGFSLFEASQISKEICEAHDILMCPLGDHSRRYQRLSETCTFAKLTHLFDNDGTVVFAIFMALWATV
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 LVVYRVLASALFSSSAVPFLEEQVTTAVVVTGALVHYVTIVIMTKINRRVALKLCDFEMPRTFSERESRF
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 CVEYLVPVWTHKCRSLRASESGHLPRDPELRDWRNRYLLNPVNTFSLFDEFMEMMIQYGFTTIFVAAFPL
 APLLALFSNLVEIRLDAIKMWLQRRLVPRKADIGTWLQVLETIGVLAVIANGMVIAFTSEFIPRVVYK
 YRYSPLKEGNSTVDCLKGYVNHSLSVFHTKDFQDPDGIEGSENVTLCRYRDYRNPPDYNFSEQWFLLA
 IRLAFVILFEHVALCIKLIAAWVPDIPQSVKNKVLEVKYQRLREKMWHRQRLGGVGAGSRPPMPAHP
 PASIFSARSTDV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001012302

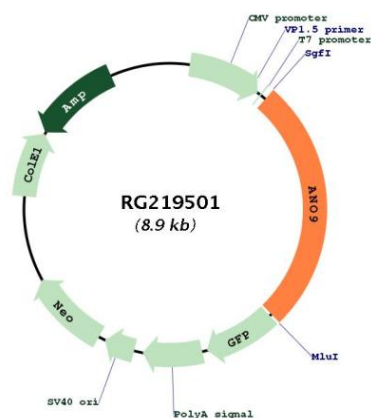
ORF Size: 2346 bp

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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001012302.1, NP_001012302.1</u>
RefSeq Size:	2831 bp
RefSeq ORF:	2349 bp
Locus ID:	338440
UniProt ID:	<u>A1A5B4</u>
Cytogenetics:	11p15.5
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	The protein encoded by this gene is a member of the TMEM16 (anoctamin) family of proteins, some of which form integral membrane calcium-activated chloride channels. The function of the encoded protein has yet to be elucidated, although it may have channel-forming abilities and also may have phospholipid scramblase activity. This gene has been observed to be upregulated in stage II and III colorectal cancers. [provided by RefSeq, Dec 2016]

Product images:



Circular map for RG219501