OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG224062

anoctamin 5 (ANO5) (NM_213599) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	anoctamin 5 (ANO5) (NM_213599) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	anoctamin 5
Synonyms:	GDD1; LGMD2L; LGMDR12; TMEM16E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG224062 representing NM_213599
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGACCCGGATCTCCTGGAAGTGTTGGCGGAGGAAGGGGAAAAAGTCAATAAGCATATAGACTACT
CTTTCCAAATGAGTGAGCAGAGCCTGAGCAGCAGAGAGACCAGCTTTCTCATCAATGAAGAAACAATGCC
TGCAAAGCGATTCAATTTGTTCCTGAGGCGGCGGCTTATGTTTCAAAAAAATCAGCAAAGCAAAGATTCT
ATCTTCTTCCGAGATGGGATTAGGCAAATTGATTTTGTGCTTTCCTACGTTGATGACGTAAAGAAAGACG
CAGAGTTAAAGGCGGAAAGAAGAAAAGAGTTTGAAACTAATCTCAGAAAAACAGGTCTTGAGTTGGAAAT
AGAAGACAAAAGGGACTCGGAAGATGGAAGAACTTATTTTGTCAAGATCCATGCCCCTTGGGAGGTATTA
GTTACCTATGCTGAAGTCTTGGGAATCAAAATGCCTATTAAGGAGAGTGATATTCCCCGCCCTAAGCACA
CTCCTATAAGCTATGTGCTTGGACCTGTAAGACTCCCACTGAGTGTGAAGTATCCCCATCCTGAATATTT
TACTGCACAATTCAGCAGACATCGGCAGGAGCTCTTCCTCATCGAAGATCAGGCAACCTTCTTTCCATCC
TCATCAAGAAACAGAATTGTGTACTATATTCTCTCAAGATGTCCTTTTGGCATAGAAGATGGGAAGAAAA
GGTTTGGGATTGAAAGACTGCTAAACTCTAACACTTACTCATCTGCCTATCCACTCCATGATGGCCAATA
TTGGAAGCCATCAGAACCTCCCAATCCTACCAATGAAAGATACACACTTCACCAGAATTGGGCTCGATTT
TCCTATTTCTACAAGGAGCAGCCTTTAGACTTGATTAAGAATTATTATGGAGAAAAAATTGGTATCTATT
TTGTCTTTCTTGGATTTTACACAGAAATGCTATTCTTTGCAGCTGTAGTTGGCTTAGCTTGTTTTATTTA
TGGCTTATTATCAATGGAACATAACACAAGCAGCACTGAAATCTGTGACCCTGAGATTGGTGGTCAGATG
ATCATGTGCCCACTCTGTGATCAAGTGTGTGATTATTGGAGACTAAATAGTACGTGTTTGGCTTCAAAGT
TCTCCCATTTGTTTGATAATGAGTCAACAGTGTTCTTTGCAATATTCATGGGAATTTGGGTCACCTTATT
TTTGGAGTTTTGGAAACAACGACAAGCCAGACTGGAATATGAATGGGACCTGGTGGACTTTGAAGAGGAA
CAGCAGCAGCTTCAGCTGAGACCAGAATTTGAAGCTATGTGTAAACACAGGAAATTGAATGCAGTGACTA
AGGAGATGGAACCTTACATGCCTCTATACACGCGTATTCCATGGTACTTTCTTTCAGGAGCCACAGTGAC
ATTATGGATGTCTCTTGTCGTCACCAGTATGGTAGCTGTAATTGTGTACCGCCTGTCAGTCTTTGCTACA
TTTGCTAGTTTCATGGAAAGTGATGCATCCTTAAAGCAGGTCAAAAGCTTCCTTACTCCTCAGATAACCA
CATCACTCACAGGATCATGCTTGAACTTTATTGTCATCTTGATCTTGAATTTCTTTTATGAAAAGATATC
TGCCTGGATCACAAAAATGGAAATTCCTCGAACATACCAGGAGTATGAGAGCAGTCTTACCTTGAAAATG
TTCCTGTTTCAGTTTGTAAATTTTTACTCATCCTGCTTCTACGTAGCTTTCTTTAAAGGGAAGTTCGTAG
GCTATCCTGGAAAATACACATATTTATTTAATGAGTGGAGAAGTGAAGAGTGTGATCCTGGAGGCTGTCT
TATAGAATTGACAACCCAATTGACCATTATAATGACCGGGAAACAGATTTTTGGAAACATTAAAGAAGCC
ATTTATCCCTTGGCTTTGAATTGGTGGAGACGCCGAAAAGCTCGGACAAACTCTGAGAAGCTGTATAGTC
GATGGGAGCAGGATCATGACCTTGAAAGTTTTGGACCCCTTGGGCTTTTCTATGAGTACTTAGAAACAGT
TACTCAATTTGGATTTGTTACACTATTTGTGGCCTCTTTTCCTTTGGCTCCTCTTCTTGCTCTCATAAAT
AATATTGTAGAGATTCGAGTGGATGCCTGGAAACTTACCACTCAATACAGGAGAACTGTAGCTTCTAAAG
CTCATAGCATAGGTGTTTGGCAAGACATTCTTTATGGAATGGCTGTCCTTTCTGTTGCAACTAATGCCTT
TATTGTTGCATTTACGTCAGACATCATTCCCCGTCTAGTTTACTACTATGCTTACTCAACAAATGCCACA
CAGCCTATGACAGGATATGTGAATAATAGCCTGTCAGTATTCCTGATAGCTGATTTTCCAAACCACACTG
CACCTTCGGAAAAACGAGACTTCATCACTTGCAGGTACAGAGATTACAGATATCCTCCTGATGACGAGAA
TAAATATTTTCATAATATGCAATTCTGGCATGTCCTTGCTGCCAAGATGACCTTCATCATTGTTATGGAA
CATGTTGTGTTTTTAGTTAAATTTTTGCTGGCCTGGATGATACCTGATGTTCCAAAAGATGTTGTGGAGA
GAATCAAGAGAGAAAAGTTAATGACTATCAAGATTCTCCATGATTTTGAGCTCAACAAATTAAAAGAGAA
CTTGGGAATTAATTCTAATGAATTTGCCAAGCATGTCATGATTGAGGAAAACAAAGCACAGCTGGCTAAA
TCAACACTC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

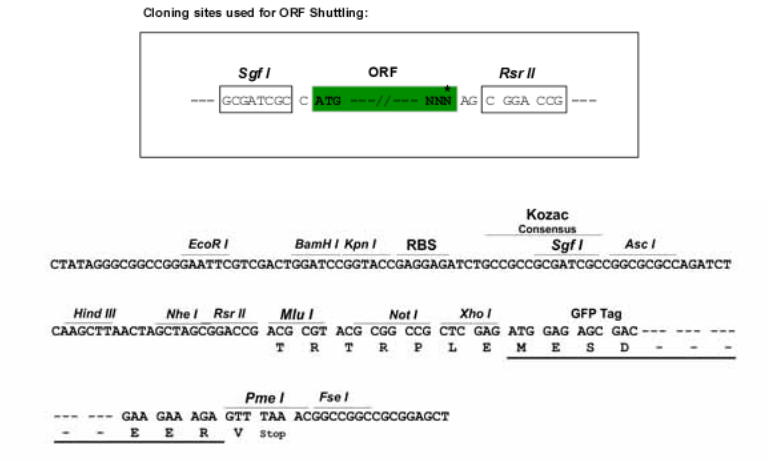
>RG224062 representing NM_213599
Red=Cloning site Green=Tags(s)

MGDPDLLEVLAEEGEKVNKHIDYSFQMSEQSLSSRETSFLINEETMPAKRFNLFLRRRLMFQKNQQSKDS
IFFRDGIRQIDFVLSYVDDVKKDAELKAERRKEFETNLRKTGLELEIEDKRDSEDGRTYFVKIHAPWEVL
VTYAEVLGIKMPIKESDIPRPKHTPISYVLGPVRLPLSVKYPHPEYFTAQFSRHRQELFLIEDQATFFPS
SSRNRIVYYILSRCPFGIEDGKKRFGIERLLNSNTYSSAYPLHDGQYWKPSEPPNPTNERYTLHQNWARF
SYFYKEQPLDLIKNYYGEKIGIYFVFLGFYTEMLFFAAVVGLACFIYGLLSMEHNTSSTEICDPEIGGQM
IMCPLCDQVCDYWRLNSTCLASKFSHLFDNESTVFFAIFMGIWVTLFLEFWKQRQARLEYEWDLVDFEEE
QQQLQLRPEFEAMCKHRKLNAVTKEMEPYMPLYTRIPWYFLSGATVTLWMSLVVTSMVAVIVYRLSVFAT
FASFMESDASLKQVKSFLTPQITTSLTGSCLNFIVILILNFFYEKISAWITKMEIPRTYQEYESSLTLKM
FLFQFVNFYSSCFYVAFFKGKFVGYPGKYTYLFNEWRSEECDPGGCLIELTTQLTIIMTGKQIFGNIKEA
IYPLALNWWRRRKARTNSEKLYSRWEQDHDLESFGPLGLFYEYLETVTQFGFVTLFVASFPLAPLLALIN
NIVEIRVDAWKLTTQYRRTVASKAHSIGVWQDILYGMAVLSVATNAFIVAFTSDIIPRLVYYYAYSTNAT
QPMTGYVNNSLSVFLIADFPNHTAPSEKRDFITCRYRDYRYPPDDENKYFHNMQFWHVLAAKMTFIIVME
HVVFLVKFLLAWMIPDVPKDVVERIKREKLMTIKILHDFELNKLKENLGINSNEFAKHVMIEENKAQLAK
STL

SGPTRTRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

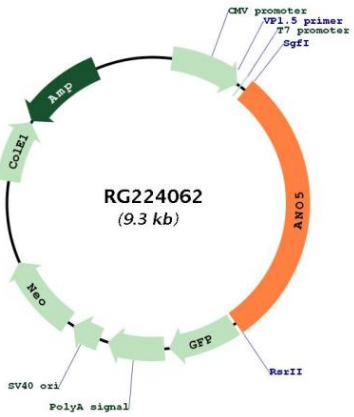
Cloning Scheme:



ACCN: NM_213599

ORF Size:	2739 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:	NM_213599.1, NP_998764.1
RefSeq Size:	3147 bp
RefSeq ORF:	2742 bp
Locus ID:	203859
UniProt ID:	Q75V66
Cytogenetics:	11p14.3
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a member of the anoctamin family of transmembrane proteins. The encoded protein is likely a calcium activated chloride channel. Mutations in this gene have been associated with gnathodiaphyseal dysplasia. Alternatively spliced transcript variants have been described. [provided by RefSeq, Nov 2009]

Product images:



Circular map for RG224062