

Specifications:

Gene:	<i>h</i> ANO1
Accession:	NP_060513
Insert size:	2974bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

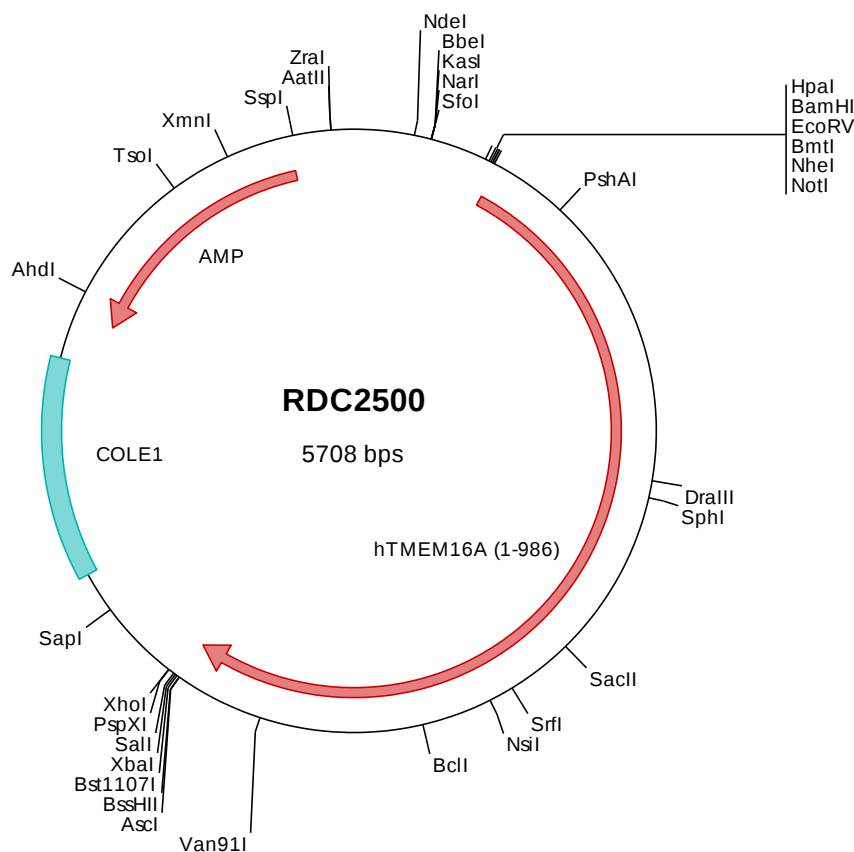
*h*ANO1/TMEM16A cDNA Plasmid

ANO1 anoctamin 1 [*Homo sapiens* (human)]

Also known as: DOG1; TAOS2; ORAOV2; TMEM16A

Summary:

TMEM16A is an eight-transmembrane calcium-activated chloride channel (CaCC). These channels play a role in transepithelial anion transport and smooth muscle contraction. It is required for the normal functioning of the interstitial cells of Cajal (ICCs) which generate electrical pacemaker activity in gastrointestinal smooth muscles. It acts a major contributor to basal and stimulated chloride conductance in airway epithelial cells and plays an important role in tracheal cartilage development.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2500 Plasmid DNA Sequence

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1   tcgcgcgcttt cgggtgatgac ggtgaaaaacc tctgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccggggagca gacaagcccc
101  tcaggggcgcg tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctcgcc aactgtttgg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgcccagct ggcgaaaagg ggaatgtgtg caaggcgatt aagttgggta atgccagggt tttcccgatc acgacgttgt aaaacgacgg ccagtgaaat
401  ggagacgtgt taacaagctt ggaatccgata tcgctagcgc ggccgcccacc atgagggtca acgagaagta ctgcagctc ccggccgagg accgcagcgt
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601  tatggcctgt acttcaggga cggccggcgc aaggtggact acatcctggt gtaccatcac aagaggccct cgggcaaccg gacctgtgtc aggaggggtg
701  agcacagcga caccccctct gggtgctcga cgttcaagca ggaccacccc ctgcgggga acgagggcgt gctggatgca ggctcggggg agcccccgat
801  ggactaccac gaggatgaca agcgcctcgc caggggaggag tacgagggca acctcctgga ggccggcctg gagctggagc gggacgagga cactaaatc
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> RDC2500 Translated Insert Sequence

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201  itdpiapkva ehrpqtmkrl syfsrckqh lfdlsdkdsf fsktrstiv yeilkrctct kakysmgits llangvyaaa yplhdgdyng envfndrkl
301  lyeearygy fykyqpidlv rkyfgekigl yfawlgvytg mlipasivgi ivflygcatm denipsmemc dqrhntmcp lcdktcsywk mssacatara
401  shlfndpatv ffsvfmalwa atfmehwkrk qmrlnyrwdl tgfeeeeav kdhpraeyea rvlekslkke srnkekrhi peestnkwwq rvktamagvk
501  ltdkvkltrw drfpayltnl vsiifmlavt faivlgviy rismaaalnm nsspsvrsni rvtvtatavi inlvviilld evygciaarl tkievpktek
601  sferlifka flklfvnsyt pifvvaaffk rfvgrrpgdyv yifrsfrmee capogclmel ciglsimlg kqlignlfe igipkmklli rylklkgqsp
701  pdheecvkrk qzyevdynle pfagltpeym emliqfgfvt lfvasflpap lfallnniie irlakkfvt elrpxavra kdigiwynil rgigklavii
801  nafvisftsd fiprlvylm yskngtmhgf vnhtlssfnv sdfqngtapn dpldlgyevq icrykdyrep pwsenkydis kdfwavlalr lafivifqnl
901  vmfmsdfvdw vipdpkdis qqihkekvml velfmreeqd kqqlletwme kerkqdeppc nhntkacpd slgspapsha yhggvf

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