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Product datasheet for MR211153

Ano6 (NM_175344) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ano6 (NM_175344) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ano6
Synonyms:	2900059G15Rik; AA407480; AW554778; F730003B03Rik; Tmem16f
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR211153 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

ATGCAGATGATGACTAGGAAGGTCCTGCTGAACATGGAGCTGGAGGAGGACGACGATGAGGATGGAGACA
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CAGGACTCCAGAGTTTGAAGAATTTAACGGGAAGCCCGACTCCCTCTTTTTCACCGATGGCCAGAGGCGA
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TGTTTCTGATGACAAGCTTGTGTTCGTAAAAGTGCACGCGCCCTGGGAAGTGCTGTGCACCTATGCTGAG
ATCATGCACATCAAACTCCCGCTAAAGCCAAACGACCTGAAAACGCGCTCGCCCTTTGGCAACCTCAACT
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CGCATTGTTTATTTCATCCTCTCTCGGGTCAAATACCAAGTGATGAACAACGTTAACAAATTTGGGATTA
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GACCAAAAACATGGGGATCATCGCCGAGAGGATAGGAGGAACGGTTGACAACAGCGTGCGGCCAAAACTC
GAA

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Protein Sequence:

>MR211153 protein sequence
Red=Cloning site Green=Tags(s)

MQMMTRKVLLNMELEEDDDEDGDIVLENFDQTIVCPTFGSLENQQDFRTPEFEEFNGKPDSLFFTDGQRR
IDFILVYEDESKKENNKKGTNEKQKRKRQAYESNLICHGLQLEATRSVSDDKLVFVKVHAPWEVLCTYAE
IMHIKLPLKPNDLKTRSPFGNLNWFTKVLRVNESVIKPEQEFFTAPFEKSRMNDFYILDRDSFFNPATRS
RIVYFILSRVKYQVMNNVNKFGINRLVSSGIYKAAFPLHDCRFNYESEDISCPSERYLLYREWAHPRSIY
KKQPLDLIRKYYGEKIGIYFAWLGYYTQMLLLAAVVGVACFLYGYLDQDNCTWSKEVCDPDIGGQILMCP
QCDRLCPFWRLNITCESSKKLCIFDSFGTLIFAVFMGVWVTLFLEFWKRRQAELEYEWDTVELQQEEQAR
PEYEAQCNHVVINEITQEEERIPFTTCGKCIRVTLCASAVFFWILLIIASVIGIIVYRLSVFIVFSTTLP
KNPNGTDPIQKYLTPQMATSITASIISFIIIMILNTIYEKVAIMITNFELPRTQTDYENSLTMKMFLFQF
VNYYSSCFYIAFFKGKFVGYPGDPVYLLGKYRSEECDPGGCLLELTTQLTIIMGGKAIWNNIQEVLLPWV
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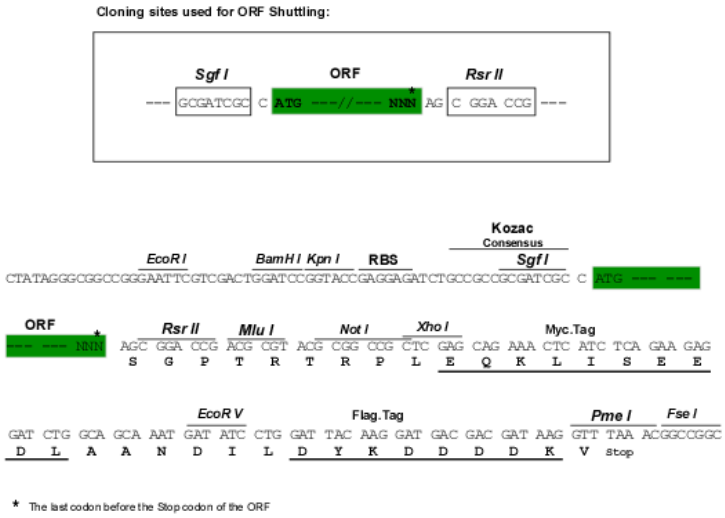
YTMDGYINNTLSVFNITDFKNTDKENPYIGLGNYTLCRYRDFRNPPGHPQEYKHNIYYWHVIAAKLAFII
VMEHIIYSVKFFISYAIPDVSKITKSKIKREKYLTQKLLHESHLKDLTKNMGIIAERIGGTVDNSVRPKL
E

Restriction Sites: SgfI-RsrII

Cloning Scheme:



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ACCN:	NM_175344
ORF Size:	2736 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.
RefSeq:	NM_175344.4
RefSeq Size:	5662 bp
RefSeq ORF:	2736 bp
Locus ID:	105722
UniProt ID:	Q6P9J9
Cytogenetics:	15 E3-F1
MW:	106.3 kDa
Gene Summary:	Small-conductance calcium-activated nonselective cation (SCAN) channel which acts as a regulator of phospholipid scrambling in platelets, osteoblasts and fetal thymocytes. Phospholipid scrambling results in surface exposure of phosphatidylserine which in platelets is essential to trigger the clotting system whereas in osteoblasts is essential for the deposition of hydroxyapatite during bone mineralization. Has calcium-dependent phospholipid scramblase activity; scrambles phosphatidylserine, phosphatidylcholine and galactosylceramide. Can generate outwardly rectifying chloride channel currents in airway epithelial cells and Jurkat T lymphocytes.[UniProtKB/Swiss-Prot Function]

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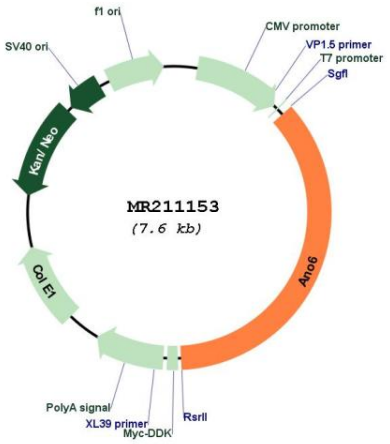
Product images:



Circular map for MR211153

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