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Product datasheet for RC221168

CHRNA1 (NM_001039523) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA1 (NM_001039523) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHRNA1
Synonyms:	ACHRA; ACHRD; CHRNA; CMS1A; CMS1B; CMS2A; FCCMS; SCCMS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC221168 representing NM_001039523
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCCCTGGCCTCTCCTCCTGCTCTTTAGCCTTTGCTCAGCTGGCCTCGTCCTGGGCTCCGAACATG
AGACCCGTCTGGTGGCAAAGCTATTTAAAGACTACAGCAGCGTGGTGCGGCCAGTGGAAGACCACCGCCA
GGTCGTGGAGGTCACCGTGGGCCTGCAGCTGATACAGCTCATCAATGTGGATGAAGTAAATCAGATCGTG
ACAACCAATGTGCGTCTGAAACAGGGTGACATGGTAGATCTGCCACGCCCCAGCTGCGTGACTTTGGGAG
TTCCTTTGTTTTCTCATCTGCAGAATGAGCAATGGGTGGATTACAACCTAAAATGGAATCCAGATGACTA
TGGCGGTGTGAAAAAAATTCACATTCCTTCAGAAAAGATCTGGCGCCCAGACCTTGTTCTCTATAACAAT
GCAGATGGTGACTTTGCTATTGTCAAGTTCACCAAAGTGCTCCTGCAGTACACTGGCCACATCACGTGGA
CACCTCCAGCCATCTTTAAAAGCTACTGTGAGATCATCGTCACCCACTTTCCCTTTGATGAACAGAACTG
CAGCATGAAGCTGGGCACCTGGACCTACGACGGCTCTGTCGTGGCCATCAACCCGGAAAGCGACCAGCCA
GACCTGAGCAACTTCATGGAGAGCGGGGAGTGGGTGATCAAGGAGTCCCGGGGCTGGAAGCACTCCGTGA
CCTATTCCTGCTGCCCCGACACCCCCTACCTGGACATCACCTACCACTTCGTCATGCAGCGCCTGCCCCT
CTACTTCATCGTCAACGTCATCATCCCCTGCCTGCTCTTCTCCTTCTTAACTGGCCTGGTATTCTACCTG
CCCACAGACTCAGGGGAGAAGATGACTCTGAGCATCTCTGTCTTACTGTCTTTGACTGTGTTCCTTCTGG
TCATCGTGGAGCTGATCCCCTCCACGTCCAGTGCTGTGCCCTTGATTGGAAAATACATGCTGTTCACCAT
GGTGTTCGTCATTGCCTCCATCATCATCACTGTCATCGTCATCAACACACACCACCGCTCACCCAGCACC
CATGTCATGCCCAACTGGGTGCGGAAGGTTTTTATCGACACTATCCCAAATATCATGTTTTTCTCCACAA
TGAAAAGACCATCCAGAGAAAAGCAAGACAAAAAGATTTTTACAGAAGACATTGATATCTCTGACATTTC
TGGAAAGCCAGGGCCTCCACCCATGGGCTTCCACTCTCCCCTGATCAAACACCCCGAGGTGAAAAGTGCC
ATCGAGGGCATCAAGTACATCGCAGAGACCATGAAGTCAGACCAGGAGTCTAACAATGCGGCGGCAGAGT
GGAAGTACGTTGCAATGGTGATGGACCACATACTCCTCGGAGTCTTCATGCTTGTTTGCATCATCGGAAC
CCTAGCCGTGTTTGCAGGTCGACTCATTGAATTAAATCAGCAAGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221168 representing NM_001039523
Red=Cloning site Green=Tags(s)

MEPWPLLLLFSLCSAGLVLGSEHETRLVAKLFKDYSSVVRPVEDHRQVVEVTVGLQLIQLINVDEVNQIV
TTNVRLKQGDMVDLPRPSCVTLGVPLFSHLQNEQWVDYNLKWNPDDYGGVKKIHIPSEKIWRPDLVLYNN
ADGDFAIVKFTKVLLQYTGHITWTPPAIFKSYCEIIVTHFPFDEQNCSMKLGTWTYDGSVVAINPESDQP
DLSNFMESGEWVIKESRGWKHSVTYSCCPDTPYLDITYHFVMQRLPLYFIVNVIIPCLLFSFLTGLVFYL
PTDSGEKMTLSISVLLSLTVFLLVIVELIPSTSSAVPLIGKYMLFTMVFVIASIIITVIVINTHHRSPST
HVMPNWVRKVFIDTIPNIMFFSTMKRPSREKQDKKIFTEDIDISDISGKPGPPPMGFHSPLIKHPEVKSA
IEGIKYIAETMKSDQESNNAAAEWKYVAMVMDHILLGVFMLVCIIGTLAVFAGRLIELNQQG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6506_f12.zip

Restriction Sites: SgfI-MluI

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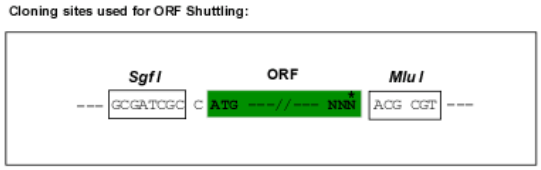
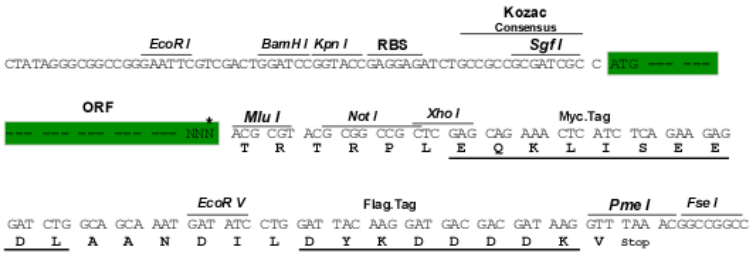
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: NM_001039523

ORF Size: 1446 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_001039523.3

RefSeq Size: 2040 bp

RefSeq ORF: 1449 bp

Locus ID: 1134

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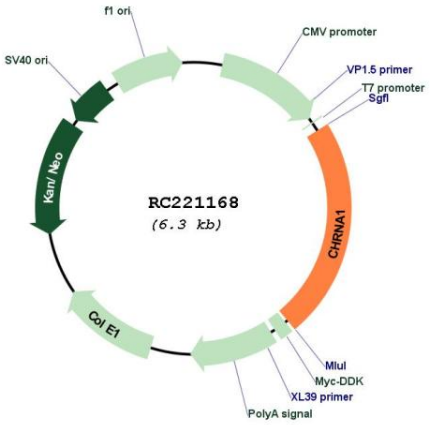
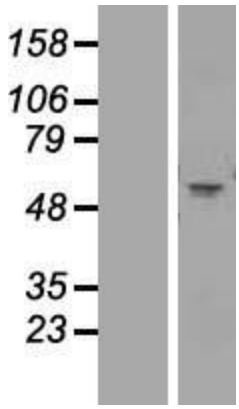
UniProt ID:	P02708
Cytogenetics:	2q31.1
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
MW:	54.55 kDa
Gene Summary:	The muscle acetylcholine receptor consiststs of 5 subunits of 4 different types: 2 alpha subunits and 1 each of the beta, gamma, and delta subunits. This gene encodes an alpha subunit that plays a role in acetylcholine binding/channel gating. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RC221168



Western blot validation of overexpression lysate (Cat# [LY422065]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221168 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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