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Product datasheet for RC221423

CHRNE (NM_000080) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNE (NM_000080) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHRNE
Synonyms:	ACHRE; CMS1D; CMS1E; CMS2A; CMS4A; CMS4B; CMS4C; FCCMS; SCCMS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC221423 representing NM_000080
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAAGGGCTCCGCTTGGGGTCCTGCTCCTCTTGGGGCTTCTCGGCAGGGGTGTGGGGAAGAACGAGG
AACTGCGTCTTTATCACCATCTCTTCAACAACTATGACCCAGGAAGCCGGCCAGTGCGGGAGCCTGAGGA
TACTGTCACCATCAGCCTCAAGGTCACCCTGACGAATCTCATCTCACTGAATGAAAAAGAGGAGACTCTC
ACCACTAGCGTCTGGATTGGAATCGATTGGCAGGATTACCGACTCAACTACAGCAAGGACGACTTTGGGG
GTATAGAAACCCTGCGAGTCCCTTCAGAACTCGTGTGGCTGCCAGAGATTGTGCTGGAAAACAATATTGA
TGGCCAGTTCGGAGTGGCCTACGACGCCAACGTGCTCGTCTACGAGGGCGGCTCCGTGACGTGGCTGCCT
CCGGCCATCTACCGCAGCGTCTGCGCAGTGGAGGTCACCTACTTCCCCTTCGATTGGCAGAACTGTTCGC
TTATTTTCCGCTCTCAGACGTACAATGCCGAAGAGGTGGAGTTCACTTTTGCCGTAGACAACGACGGCAA
GACCATCAACAAGATCGACATCGACACAGAGGCCTATACTGAGAACGGCGAGTGGGCCATCGACTTCTGC
CCGGGGGTGATCCGCCGCCACCACGGTGGCGCCACCGACGGCCCAGGGGAGACTGACGTCATCTACTCGC
TCATCATCCGCCGGAAGCCGCTCTTCTACGTCATTAACATCATCGTGCCCTGTGTGCTCATCTCGGGCCT
GGTGCTGCTCGCCTACTTCCTGCCGGCGCAGGCCGGCGGCCAGAAATGCACGGTCTCCATCAACGTCCTG
CTCGCCCAGACCGTCTTCTTGTTCCTCATTGCCCAGAAAATCCCAGAGACTTCTCTGAGCGTGCCGCTCC
TGGGCAGGTTCCTTATTTTCGTCATGGTGGTCGCCACGCTCATTGTCATGAATTGCGTCATCGTGCTCAA
CGTGTCCCAGCGGACGCCCACCACCCACGCCATGTCCCCGCGGCTGCGCCACGTTCTCCTGGAGCTGCTG
CCGCGCCTCCTGGGCTCCCCGCCGCCGCCCGAGGCCCCCCGGGCCGCCTCGCCCCCAAGGCGGGCGTCGT
CGGTGGGCTTATTGCTCCGCGCGGAGGAGCTGATACTGAAAAAGCCACGGAGCGAGCTCGTGTTTGAGGG
GCAGAGGCACCGGCAGGGGACCTGGACGGCTGCCTTCTGCCAGAGCCTGGGCGCCGCCGCCCCCGAGGTC
CGCTGCTGTGTGGATGCCGTGAACTTCGTGGCCGAGAGCACGAGAGATCAGGAGGCCACCGGCGAGGAAG
TGTCCGACTGGGTGCGCATGGGGAATGCCCTTGACAACATCTGCTTCTGGGCCGCTCTGGTGCTCTTCAG
CGTGGGCTCCAGCCTCATCTTCCTCGGGGCCTACTTCAACCGAGTGCCTGATCTCCCCTACGCGCCGTGT
ATCCAGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221423 representing NM_000080
Red=Cloning site Green=Tags(s)

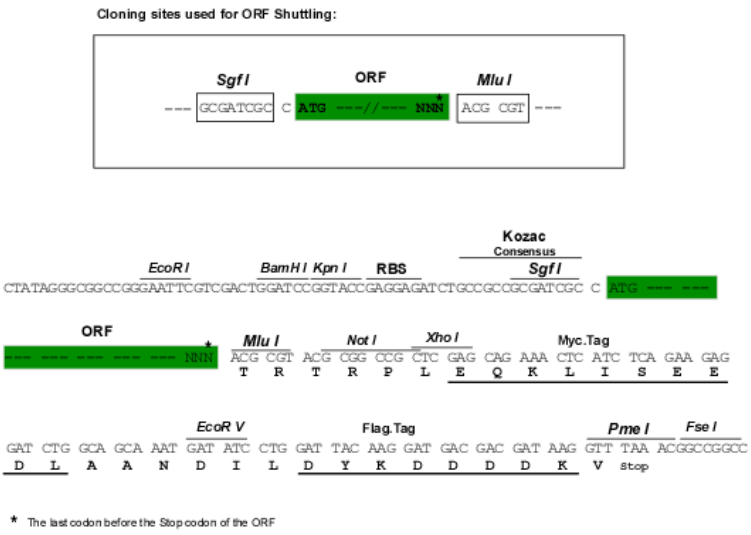
MARAPLGVLLLLGLLGRGVGKNEELRLYHHLFNNYDPGSRPVREPEDTVTISLKVTLTNLISLNEKEETL
TTSVWIGIDWQDYRLNYSKDDFGGIETLRVPSELVWLPEIVLENNIDGQFGVAYDANVLVYEGGSVTWLP
PAIYRSVCAVEVTYFPFDWQNCSLIFRSQTYNAEEVEFTFAVDNDGKTINKIDIDTEAYTENGEWAIDFC
PGVIRRHHGGATDGPGETDVIYSLIIRRKPLFYVINIIVPCVLISGLVLLAYFLPAQAGGQKCTVSINVL
LAQTVFLFLIAQKIPETSLSVPLLGRFLIFVMVVATLIVMNCVIVLNVSQRTPTTHAMSPRLRHVLLELL
PRLLGSPPPPEAPRAASPPRRASSVGLLLRAEELILKKPRSELVFEGQRHRQGTWTAAFCQSLGAAAPEV
RCCVDAVNFVAESTRDQEATGEEVSDWVRMGNALDNICFWAALVLFSVGSSLIFLGAYFNRVPDLPYAPC
IQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8001_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000080

ORF Size: 1479 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

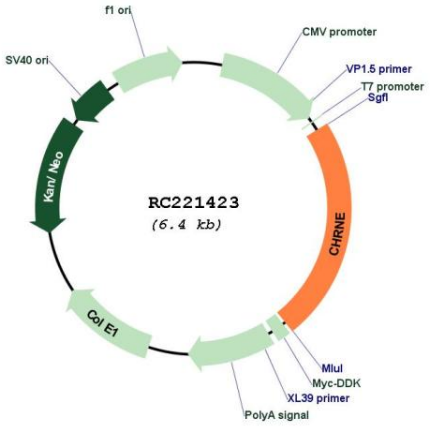
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_000080.4
RefSeq Size:	2463 bp
RefSeq ORF:	1482 bp
Locus ID:	1145
UniProt ID:	Q04844
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
MW:	54.7 kDa
Gene Summary:	Acetylcholine receptors at mature mammalian neuromuscular junctions are pentameric protein complexes composed of four subunits in the ratio of two alpha subunits to one beta, one epsilon, and one delta subunit. The acetylcholine receptor changes subunit composition shortly after birth when the epsilon subunit replaces the gamma subunit seen in embryonic receptors. Mutations in the epsilon subunit are associated with congenital myasthenic syndrome. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RC221423