

Product datasheet for RC215588

CHRFAM7A (NM_139320) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRFAM7A (NM_139320) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHRFAM7A
Synonyms:	CHRNA7; CHRNA7-DR1; D-10; NACHRA7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215588 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAAAATATTGCATCTACCAGCATTTTCAGTTCCAATTGCTAATCCAGCATTTGTGGATAGCTGCAA
ACTGCGATATTGCTGATGAGCGCTTTGACGCCACATCCACACTAACGTGTTGGTGAATCTTCTGGGCA
TTGCCAGTACCTGCCAGGCATATCAAGATTCTGCTACATCGATGTACGCTGGTTCCCTTTGAT
GTGCAGCACTGCAAACTGAAGTTTGGTCTGGTCTTACGGAGGCTGGTCTTGGATCTGCAGATGCAGG
AGGCAGATATCAGTGGCTATATCCCAATGGAGAATGGGACCTAGTGGGAATCCCGGCAAGAGGAGTGA
AAGGTTCTATGAGTGCTGCAAAGAGCCCTACCCGATGTACCTTACAGTGACCATGCGCCGAGGACA
CTCTACTATGGCCTCAACCTGCTGATCCCTGTGTGCTCATCTCCGCCCTCGCCCTGCTGGTGTCTCTGC
TTCTGAGATTCGGGGAGAAGATTTCCCTGGGATAACAGTCTTACTCTCTTACCCTTTCATGCT
GCTCGTGGCTGAGATCATGCCGCAACATCCGATTCGGTACCATGATAGCCAGTACTTCGCCAGCACC
ATGATCATCGTGGGCTCTCGGTGGTGGTACGGTGTGCTGTCAGTACCACCACCAGACCCCGACG
GGGGCAAGATGCCAAGTGGACCAGAGTCATCCTTCTGAAGTGGTGCCTGGTCTTCCGCAATGAAGAG
GCCCGGGAGGACAAGGTGCGCCCGCCAGCAACGGGAACCTGCTGTACATCGGCTTCCCGGCCTGGAG
ATGAGCGCGTGGCGCCCGCCAGCAACGGGAACCTGCTGTACATCGGCTTCCCGGCCTGGAG
CGGTGCACTGTGTCCCGACCCCGACTCTGGGGTGTGTGGCCGATGGCTGCTCCCCACGCACGA
TGAGCACCTCTGCACGGTGGGCAACCCCGAGGGGACCCGGACTTGGCAAGATCCTGGAGGAGGTC
CGCTACATTGCCAACGCTTCCGCTGCCAGGACGAAAGCGAGGCGGTCTGCAGCGAGTGAAGTTCGCCG
CCTGTGTGGTGGACCGCTGTGCCTCATGGCTTCTCGGTCTTACCATCATCTGCACCATCGGCATCCT
GATGTCGGCTCCCAACTCGTGGAGCCGTGTCCAAGACTTTGCG

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online >](#)

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_139320.1](#), [NP_647536.1](#)

RefSeq Size: 2858 bp

RefSeq ORF: 1239 bp

Locus ID: 89832

UniProt ID: [Q494W8](#)

Cytogenetics: 15q13.2

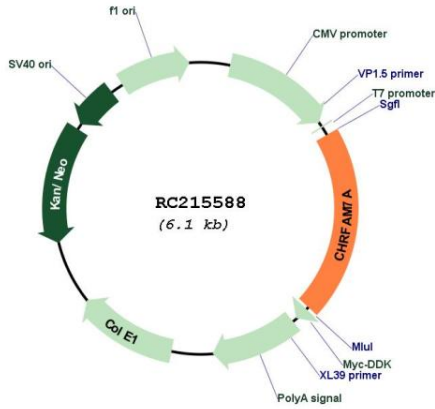
Domains: Neur_chan_memb, Neur_chan_LBD

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

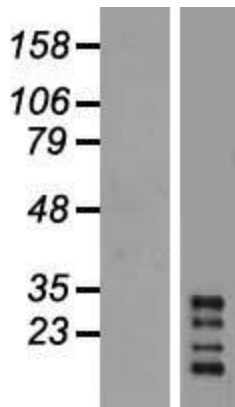
MW: 46.2 kDa

Gene Summary: The nicotinic acetylcholine receptors (nAChRs) are members of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. The family member CHRNA7, which is located on chromosome 15 in a region associated with several neuropsychiatric disorders, is partially duplicated and forms a hybrid with a novel gene from the family with sequence similarity 7 (FAM7A). Alternative splicing has been observed, and two variants exist, for this hybrid gene. The N-terminally truncated products predicted by the largest open reading frames for each variant would lack the majority of the neurotransmitter-gated ion-channel ligand binding domain but retain the transmembrane region that forms the ion channel. Although current evidence supports transcription of this hybrid gene, translation of the nicotinic acetylcholine receptor-like protein-encoding open reading frames has not been confirmed. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC215588



Western blot validation of overexpression lysate (Cat# [LY408311]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215588 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).