

Product datasheet for **RG215588**

CHRFAM7A (NM_139320) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRFAM7A (NM_139320) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHRFAM7A
Synonyms:	CHRNA7; CHRNA7-DR1; D-10; NACHRA7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215588 representing NM_139320 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAAAATATTGCATCTACCAGCATTTTCAGTTCCAATTGCTAATCCAGCATTGTGGATAGCTGCAA
ACTGCGATATTGCTGATGAGCGCTTTGACGCCACATTCCACACTAACGTGTTGGTGAATTCTTCTGGGCA
TTGCCAGTACCTGCCAGGCATATCAAGAGTTCCTGCTACATCGATGTACGCTGGTTCCCTTTGAT
GTGCAGCACTGCAAACTGAAGTTTGGTCTGGTCTTACGGAGGCTGGTCTTGGATCTGCAGATGCAGG
AGGCAGATATCAGTGGCTATATCCCAATGGAGAATGGGACCTAGTGGGAATCCCGGCAAGAGGAGTGA
AAGGTTCTATGAGTGCTGCAAAGAGCCCTACCCGATGTACCTTACAGTGACCATGCGCCGAGGACA
CTCTACTATGGCCTCAACCTGCTGATCCCTGTGTGCTCATCTCCGCCCTCGCCCTGCTGGTGTCTCTGC
TTCTGAGATTCCGGGGAGAAGATTTCCCTGGGGATAACAGTCTTACTCTCTTACCCTTTCATGCT
GCTCGTGGCTGAGATCATGCCCGCAACATCCGATTCGGTACCATGATAGCCAGTACTTCGCCAGCACC
ATGATCATCGTGGGCTCTCGGTGGTGGTGACGGTATCGTGTGCGTACCACCACCACGACCCCGACG
GGGGCAAGATGCCAAGTGGACCAGAGTCATCCTTCTGAAGTGGTGCCTGGTTCCTGCGAATGAAGAG
GCCCGGGAGGACAAGGTGCGCCCGCCGAGCAGCAACGGGAACCTGCTGTACATCGGCTTCGCGGCCTGGAG
ATGAGCGCGTGGCGCCCGCCGAGCAGCAACGGGAACCTGCTGTACATCGGCTTCGCGGCCTGGAG
CGGTGCACTGTGTCGACCCCGACTCTGGGGTAGTGTGTGGCCGATGGCTGCTCCCCACGCACGA
TGAGCACCTCTGCACGGTGGGCAACCCCGAGGGGACCCGGACTTGGCAAGATCCTGGAGGAGGTC
CGCTACATTGCCAACGCTTCCGCTGCCAGGACGAAAGCGAGGCGGTCTGCAGCGAGTGAAGTTCGCCG
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GATGTCGGCTCCCAACTCGTGGAGGCGGTGCCAAAGACTTTGGC

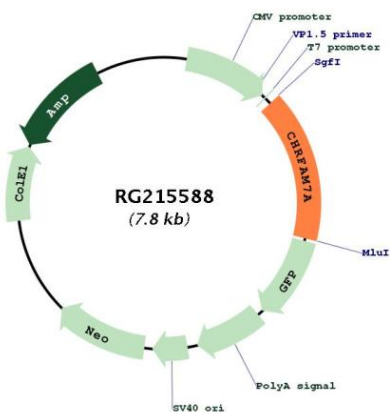
ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Reconstitution Method:	<ol style="list-style-type: none">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:	<u>NM_139320.1, NP_647536.1</u>
RefSeq Size:	2858 bp
RefSeq ORF:	1239 bp
Locus ID:	89832
UniProt ID:	<u>Q494W8</u>
Cytogenetics:	15q13.2
Domains:	Neur_chan_memb, Neur_chan_LBD
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG215588