

## Product datasheet for **RG207623**

### CHRFAM7A (NM\_148911) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHRFAM7A (NM_148911) 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:	>RG207623 representing NM_148911 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGGAGGCAGATATCAGTGGCTATATCCCCAATGGAGAATGGGACCTAGTGGGAATCCCCGGCAAGA  
GGAGTGAAAGGTTCTATGAGTGTGCAAAGAGCCCTACCCCGATGTCACCTTCACAGTGACCATGCGCCG  
CAGGACGCTCTACTATGGCCTCAACCTGCTGATCCCCTGTGTGCTCATCTCCGCCCTCGCCCTGCTGGT  
TTCCTGCTTCTGCAGATTCGGGGAGAAGATTTCCCTGGGGATAACAGTCTTACTCTCTCTTACCGTCT  
TCATGCTGCTCGTGGCTGAGATCATGCCGCAACATCCGATTCGGTACCATTGATAGCCAGTACTTCGC  
CAGCACCATGATCATCGTGGCCTCTCGGTGGTGGTGACAGTGATCGTGTGCAGTACCACCACCAGCAG  
CCCAGCGGGGCAAGATGCCAAGTGGACCAGAGTCATCCTTCTGAACTGGTGCGCGTGGTTCCTGCGAA  
TGAAGAGGCCCGGGGAGGACAAGGTGCGCCCGCCTGCCAGCACAAGCAGCGGCGTGCAGCCTGGCCAG  
TGTGGAGATGAGCGCCGTGGCGCCGCGCCCGCCAGCAACGGGAACCTGCTGTACATCGGCTTCCGCGGC  
CTGGACGGCGTCACTGTGTCCCAGCCCCGACTCTGGGGTAGTGTGTGGCCGATGGCCTGCTCCCCCA  
CGCACGATGAGCACCTCCTGCACGGTGGCAACCCCCGAGGGGGACCCGGACTTGGCCAAGATCCTGGA  
GGAGGTCCGCTACATTGCCAACCCTCCGCTGCCAGGACGAAAGCGAGGCGGTCTGCAGCGAGTGAAG  
TTCGCCGCTGTGTGGTGGACCGCCTGTGCCTCATGGCCTTCTCGGTCTTACCATCATCTGCACCATCG  
GCATCTGATGTGGCTCCCAACTTCGTGGAGGCCGTGTCCAAAGACTTTGCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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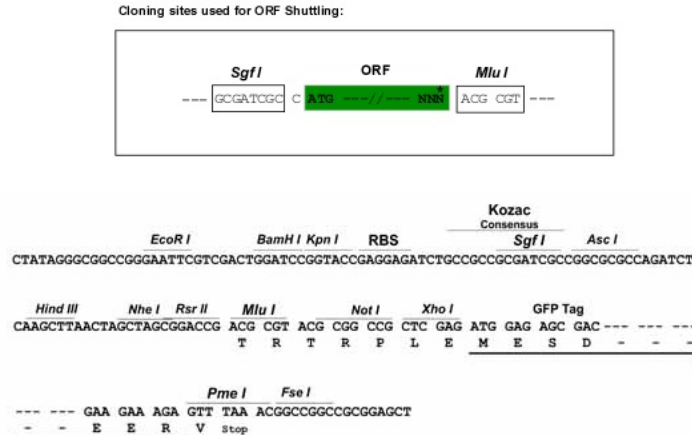
**Protein Sequence:** >RG207623 representing NM\_148911  
Red=Cloning site Green=Tags(s)

MQEADISGYIPNGEWDLVGIPGKRSERFYECCKEYPYDVTFVTMRRTLYYGLNLLIPCVLISALALLV  
 FLLPADSGEKISLGITVLLSLTVFMLLVAEIMPATSDSVPLIAQYFASTMIIVGLSVVTVIVLQYHHHD  
 PDGGKMPKWTRVILLNWCWFLRMKRPGEDKVRPACQHKQRRCSLASVEMSAVAPPPASNGNLLYIGFRG  
 LDGVHCVPTPDSGVVCGRMACSPTHDEHLLHGGQPPEGDPDLAKILEEVRYIANRFRCQDESEAVCSEWK  
 FAACVVDRLCLMAFSVFTIICTIGILMSAPNFVEAVSKDFA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_148911

**ORF Size:** 963 bp

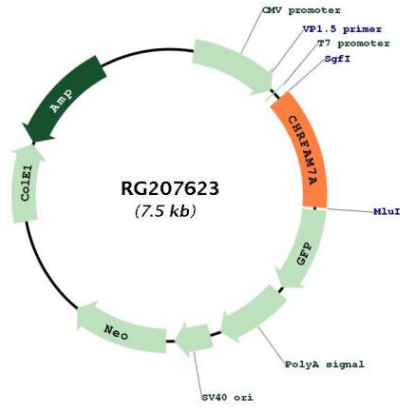
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_148911.1</a> , <a href="#">NP_683709.1</a>
<b>RefSeq Size:</b>	2794 bp
<b>RefSeq ORF:</b>	966 bp
<b>Locus ID:</b>	89832
<b>UniProt ID:</b>	<a href="#">P36544</a>
<b>Cytogenetics:</b>	15q13.2
<b>Domains:</b>	Neur_chan_memb
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other, Transmembrane
<b>Gene Summary:</b>	<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 RG207623