

## Product datasheet for RC237342

### Chromogranin A (CHGA) (NM\_001301690) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chromogranin A (CHGA) (NM_001301690) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chromogranin A
Synonyms:	CGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237342 representing NM_001301690 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGCTCCGCCGCTGTCTGGCTCTTCTGCTCTGCGCCGGCAAGTCACTGCGCTCCCTGTGAACAGCC  
CTATGAATAAAGGGGATACCGAGGTGATGAAATGCATCGTTGAGGTCATCTCCGACACACTTTCCAAGCC  
CAGCCCCATGCCTGTCAGCCAGGAATGTTTTGAGACACTCCGAGGAGATGAACGGATCCTTTCCATTCTG  
AGACATCAGAATTTACTGAAGGAGCTCCAAGACCTCGCTCTCAAGGCGCAAGGAGAGGGCACATCAGC  
AGAAGAAACACAGCGTTTTGAAGATGAACTCTCAGAGGTTCTTGAGAACCAGAGCAGCCAGGCCGAGCT  
GAAAGGTCGGTCGGAGGCTCTGGCTGTGGATGGAGCTGGGAAGCCTGGGGCTGAGGAGGCTCAGGACCC  
GAAGGGAAGGGAGAACAGGAGCACTCCCAGCAGAAAGAGGAGGAGGAGGATGGCAGTGGTCCCAGCAAG  
GCCTCTCCGGGGTGGGAAGAGCGGAGAGCTGGAGCAGGAGGAGGAGCGGCTCTCCAAGGAGTGGGAGGA  
CTCCAAACGCTGGAGCAAGATGGACCAGCTGGCCAAGGAGCTGACGGCTGAGAAGCGGCTGGAGGGGCGAG  
GAGGAGGAGGAGGACAACCGGGACAGTTCCATGAAGCTCTCCTCCGGGCCCGGGCTACGGCTTCAGGG  
GCCCTGGGCCGAGCTGCGACGAGGCTGGAGGCCATCCTCCGGGAGGACAGCCTTGAGGCGGGCTGCC  
CCTCCAGGTCCGAGGCTACCCCGAGGAGAAGAAAGAGGAGGAGGGCAGCGCAAACCGCAGACCAGAGGAC  
CAGGAGCTGGAGAGCCTGTCGGCCATTGAAGCAGAGCTGGAGAAAAGTGGCCACCAGCTGCAGGCACTAC  
GGCGGGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237342 representing NM\_001301690  
Red=Cloning site Green=Tags(s)

MRSAAVLALLLCAGQVTALPVNSPMNKGDEVMKCIVEVISDTLSKPSMPVVSQECFETLRGDERILSIL  
 RHQNLKELQDLALQGAKEAHQKKHSGFEDELSEVLENQSSQAEKGRSEALAVDGAGKPGAEAAQDP  
 EGKGEQEHSSQKEEEEEEMAVVPQGLFRGGKSGELEQEEERLSKEWEDSKRWSKMDQLAKELTAEKRLEGQ  
 EEEEDNRDSSMKLSFRARAYGFRGPGPQLRRGWRPSSREDSLEAGLPLQVRGYPEEKKEEEGSANRRPED  
 QELESLSAIEAELEKVAHQQLALRRG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001301690

**ORF Size:** 918 bp

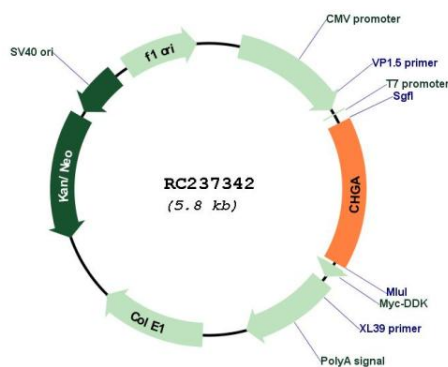
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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_001301690.2</a>
<b>RefSeq Size:</b>	1626 bp
<b>RefSeq ORF:</b>	921 bp
<b>Locus ID:</b>	1113
<b>UniProt ID:</b>	<a href="#">P10645</a>
<b>Cytogenetics:</b>	14q32.12
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>MW:</b>	34.7 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a member of the chromogranin/secretogranin family of neuroendocrine secretory proteins. It is found in secretory vesicles of neurons and endocrine cells. This gene product is a precursor to three biologically active peptides; vasostatin, pancreastatin, and parastatin. These peptides act as autocrine or paracrine negative modulators of the neuroendocrine system. Two other peptides, catestatin and chromofungin, have antimicrobial activity and antifungal activity, respectively. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2014]

## Product images:



Circular map for RC237342