

## Product datasheet for **RG237342**

### 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:	TurboGFP
Symbol:	Chromogranin A
Synonyms:	CGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237342 representing NM_001301690. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGCTCCGCCGCTGTCTGGCTCTTCTGCTCTGCGCCGGGCAAGTCACTGCGCTCCCTGTGAACAGC
CCTATGAATAAAGGGGATACCGAGGTGATGAAATGCATCGTTGAGGTCATCTCCGACACACTTTCCAAG
CCCAGCCCCATGCCTGTCAGCCAGGAATGTTTTGAGACTCCGAGGAGATGAACGGATCCTTTCCATT
CTGAGACATCAGAATTTACTGAAGGAGCTCCAAGACCTCGCTCTCAAGGCGCAAGGAGAGGGCACAT
CAGCAGAAGAAACACAGCGGTTTTGAAGATGAACTCTCAGAGTCTTGAGAACCAGAGCAGCCAGGCC
GAGCTGAAAGGTCGGTCGGAGGCTCTGGCTGTGGATGGAGCTGGGAAGCCTGGGGCTGAGGAGGCTCAG
GACCCCGAAGGGAAGGGAGAACAGGAGCACTCCCAGCAGAAAGAGGAGGAGGAGGATGGCAGTGGTC
CCGCAAGGCCTCTTCCGGGTGGGAAGAGCGGAGAGCTGGAGCAGGAGGAGGAGCGGCTCTCAAGGAG
TGGGAGGACTCCAACGCTGGAGCAAGATGGACCAGCTGGCCAAGGAGCTGACGGCTGAGAAGCGGCTG
GAGGGGCAGGAGGAGGAGGAGGACAACCGGACAGTTCATGAAGCTCTCCTTCCGGGCCGGGCCCTAC
GGCTTCAGGGGCCCTGGGCCGAGCTGCGACGAGGCTGGAGGCCATCCTCCCGGGAGGACAGCCTTGAG
GCGGGCCTGCCCTCCAGTCCGAGGCTACCCGAGGAGAAGAAAGAGGAGGAGGCGAGCGCAAACCGC
AGACCAGAGGACCAGGAGCTGGAGAGCCTGTGCGCCATTGAAGCAGAGCTGGAGAAAGTGGCCACCAG
CTGCAGGCACTACGGCGGGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG237342  
 Blue=ORF Red=Cloning site Green=Tag(s)

MRSAAVLALLLCAGQVTALPVNSPMNKGDTVEVMKCIVEVISDTLSKPSMPVVSQECFETLRGDERILSI  
 LRHQNLKELQDLALQGAKEAHQKKHSGFEDELSEVLENQSSQAEKGRSEALAVDGAGKPGAEAAQ  
 DPEGKGEQEHSSQKKEEEEEEMAVVPQGLFRGGKSGELEQEEERLSKEWEDSKRWSKMDQLAKELTAEKRL  
 EGQEEEEENRDSMMLKSFRRARYGFRGPGPQLRRGWRPSSREDSLEAGLPLQVRGYPEEKKEEESANR  
 RPEDQLEESLSAIEAELEKVAHQALRRG  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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).

**RefSeq:** [NM\\_001301690.2](#)

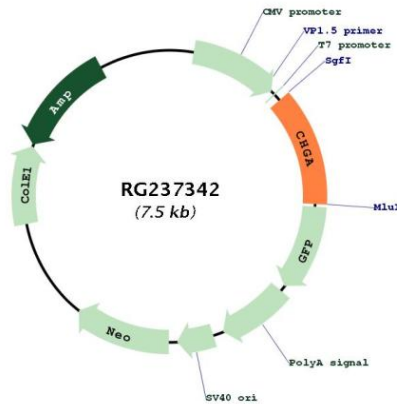
**RefSeq Size:** 1626 bp

**RefSeq ORF:** 921 bp

**Locus ID:** 1113  
**UniProt ID:** [P10645](#)  
**Cytogenetics:** 14q32.12  
**Protein Families:** Druggable Genome, Secreted Protein  
**MW:** 34.7 kDa

**Gene Summary:** 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 RG237342