

## Product datasheet for SC335236

### Chromogranin A (CHGA) (NM\_001301690) Human Untagged Clone

#### Product data:

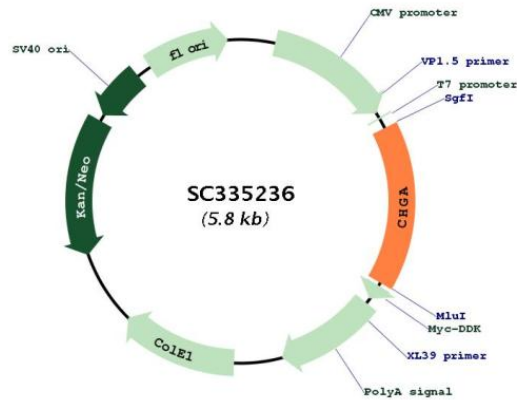
Product Type:	Expression Plasmids
Product Name:	Chromogranin A (CHGA) (NM_001301690) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHGA
Synonyms:	CGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335236 representing NM_001301690. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGCTCCGCCGCTGTCTGGCTCTTCTGCTCTGCGCCGGGCAAGTCACTGCGCTCCCTGTGAACAGC
CCTATGAATAAAGGGGATACCGAGGTGATGAAATGCATCGTTGAGGTCATCTCCGACACACTTTCCAAG
CCCAGCCCCATGCCTGTAGCCAGGAATGTTTTGAGACTCCGAGGAGATGAACGGATCCTTTCCATT
CTGAGACATCAGAATTTACTGAAGGAGCTCCAAGACCTCGCTCTCAAGGCGCAAGGAGAGGGCACAT
CAGCAGAAGAAACACAGCGGTTTTGAAGATGAACTCTCAGAGTCTTGAGAACCAGAGCAGCCAGGCC
GAGCTGAAAGGTCGGTCGGAGGCTCTGGCTGTGGATGGAGCTGGGAAGCCTGGGGCTGAGGAGGCTCAG
GACCCCGAAGGGAAGGGAGAACAGGAGCACTCCCAGCAGAAAGAGGAGGAGGAGATGGCAGTGGTC
CCGCAAGGCCTCTTCCGGGTGGGAAGAGCGGAGAGCTGGAGCAGGAGGAGGAGCGGCTCTCAAGGAG
TGGGAGGACTCCAACGCTGGAGCAAGATGGACCAGCTGGCCAAGGAGCTGACGGCTGAGAAGCGGCTG
GAGGGGAGGAGGAGGAGGAGGACAACCGGACAGTTCATGAAGCTCTCCTTCCGGGCCGGGCTAC
GGCTTCAGGGCCCTGGGCCGAGCTGCGACGAGGCTGGAGGCCATCCTCCCGGGAGGACAGCCTTGAG
GCGGGCTGCCCTCCAGTCCGAGGCTACCCGAGGAGAAGAAAGAGGAGGAGGAGGAGGAGGAGGAGGAGG
AGACCAGAGGACCAGGAGCTGGAGAGCCTGTGCGCCATTGAAGCAGAGCTGGAGAAAGTGGCCACCAG
CTGCAGGCACTACGGCGGGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001301690

**Insert Size:** 921 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

**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.

**RefSeq:** [NM\\_001301690.1](#)

**RefSeq Size:** 1626 bp

**RefSeq ORF:** 921 bp

**Locus ID:** 1113

**UniProt ID:** [P10645](#)

**Cytogenetics:** 14q32.12

**Protein Families:** Druggable Genome, Secreted Protein

**MW:** 34.3 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]  
Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.