

Product datasheet for **SC119356**

Chromogranin A (CHGA) (NM_001275) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chromogranin A (CHGA) (NM_001275) Human Untagged Clone
Tag:	Tag Free
Symbol:	Chromogranin A
Synonyms:	CGA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC119356 sequence for NM_001275 edited (data generated by NextGen Sequencing)

```

ATGCGCTCCGCCGCTGTCTGGCTCTTCTGCTCTGCGCCGGGCAAGTCACTGCGCTCCCT
GTGAACAGCCCTATGAATAAAGGGGATACCGAGGTGATGAAATGCATCGTTGAGGTCATC
TCCGACACACTTTCCAAGCCCAGCCCCATGCCTGTCAGCCAGGAATGTTTTGAGACACTC
CGAGGAGATGAACGGATCCTTTCCATTCTGAGACATCAGAATTTACTGAAGGAGCTCCAA
GACCTCGCTCTCCAAGGCGCCAAGGAGAGGGCACATCAGCAGAAGAAACACAGCGGTTTT
GAAGATGAACTCTCAGAGGTTCTTGAGAACCAGAGCAGCCAGGCCGAGCTGAAAGAGGCG
GTGGAAGAGCCATCATCCAAGGATGTTATGGAGAAAAGAGAGGATTCCAAGGAGGCAGAG
AAAAGTGGTGAAGCCACAGACGGAGCCAGGCCCCAGGCCCTCCCGGAGCCCATGCAGGAG
TCCAAGGCTGAGGGGAACAATCAGGCCCTGGGGAGGAAGAGGAGGAGGAGGAGGAGGCC
ACCAACACCCACCCTCCAGCCAGCTCCCCAGCCAGAAATACCCAGGCCACAGGCCGAG
GGGGACAGTGAGGGCCTCTCTCAGGGTCTGGTGGACAGAGAGAAGGGCCTGAGTGCAGAG
CCAGGGTGGCAGGCAAAGAGAGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGCTGAGGCTGA
GAGGAGGCTGTCCCCGAGGAAGAAGGCCCACTGTAGTGTGAACCCCCACCCGAGCCTT
GGCTACAAGGACATCCGGAAGGCGAGAGTCCGGTCCGAGGCTCTGGCTGTGGATGGAGCT
GGGAAGCCTGGGGCTGAGGAGGCTCAGGACCCGAAGGGAAGGGAGAACAGGAGCACTCC
CAGCAGAAAGAGGAGGAGGAGGAGATGGCAGTGGTCCCGCAAGGCCTCTTCCGGGGTGGG
AAGAGCGGAGAGCTGGAGCAGGAGGAGGAGCGGCTCTCCAAGGAGTGGGAGGACTCCAAA
CGCTGGAGCAAGATGGACCAGCTGGCCAAGGAGCTGACGGCTGAGAAGCGGCTGGAGGGG
CAGGAGGAGGAGGAGGACAACCGGGACAGTTCATGAAGCTCTCCTTCCGGGCCCGGGCC
TACGGCTTCAGGGGCCCTGGGCCGAGCTGCGACGAGGCTGGAGGCCATCCTCCCGGGAG
GACAGCCTTGAGGCGGGCCTGCCCTCCAGGTCGAGGCTACCCGAGGAGAAGAAAGAG
GAGGAGGGCAGCCAAACCGCAGACCAGAGGACCAGGAGCTGGAGAGCCTGTCCGGCCATT
GAGGCAGAGCTGGAGAAAGTGGCCACCAGCTGCAGGCACTACGGCGGGGCTGA

```

Clone variation with respect to NM_001275.3
792 g=>c;1323 a=>g

5' Read Nucleotide Sequence: >OriGene 5' read for NM_001275 unedited

```

GATTTATGTATACGACTTACTATAGTGGCGGCCGCGATTCCGACAGAGTGCAGTGTCTCG
AGCCCCGTGCAGGGGAGCTTGCGGGAGGATCGACCGACAGACGGACGCACGCCGAGGCAC
TGCGCCCCCAGCCCCGCGCCGGTGCCACCCGAGCCCGACCCCGCCGAGTCCAGCCGC
CCCTCGCCCGGTGCTAGGTGCCCGGCCACACCCGCACTGCTCGGCGCCCGGGTCCG
CCATGCGCTCCGCGCTGTCTGGCTCTTCTGCTCTGCGCCGGGCAAGTCACTGCGCTCC
CTGTGAACAGCCCTATGAATAAAGGGGATACCGAGGTGATGAAATGCATCGTTGAGGTCA
TCTCCGACACACTTTCCAAGCCCAGCCCCATGCCTGTCAGCCAGGAATGTTTTGAGACAC
TCCGAGGAGATGAACGGATCCTTTCCATTCTGAGACATCAGAATTTACTGAAGGAGCTCC
AAGACCTCGCTCTCCAAGGCGCCAAGGAGAGGGCACATCAGCAGAAGAAACACAGCGGTT
TTGAAGATGAACTCTCAGAGGTTCTTGAGAACCAGAGCAGCCAGGCCGAGCTGAAAGAGG
CGGTGGAAGAGCCATCATCCAAGGATGTTATGGAGAAAAGAGAGGATTCCAAGGAGGCAG
AGAAAAGTGGTGAAGCCACAGACGGAGCCCGGCCAAGCCCTTCCGGAGCCCATGCAGGA
GTCCAAGCCTGAGGGGAACAATCANGCCCCTGGGGAGGAACAAGAGTGAGAGGAGGAGGC
CACCCACACCACCCTTCAGNCAGTCTTCCAGCCAGATTACCCAGGCCACAGGCCGAGA
GGACAGGGAGGGCNTTCTAAGGTCTGGTGGACAGAGAAAGGCCCTGATGCAAAGCCAGG
TGGCAGCAAGAAGAAAGGGGAGAAGAGTAGTAGGGCTCTAGCCTGAAGGAGGTGTCCTT
AGACAAGGCCCT

```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001275 unedited GCGTTTCGGGAGACCCANACAGCTTTATTTTTCTTTAGNTAAAGTTCATACAGAATATGT TACAGTCAGGAGTTCTCAGCTTTACCAAAGGTCAGAAGTTATTGCAGTTGTGCCAGTG GATAGGATGGAGGAAGGGAACTTCTAGAAAGCTGCCTGTGTTCCAGAGAAGGAATCGTCA ATGTTTAAAGTTGTGGGGCTGCCCTGCAAAGGATGTTCCAGGGCAGGTAGGAGTCAGGAG TAGGAGACAAGGCGCGTAGGGGGCGATAGGGTGGCCTGGGCTTGGGCAGGCTGGAGGCTG CCTCCCTACCGGAAGCAGCGTCCGGGCCATCTGGCCAGGACCTGCCAAGGGGACAGCAGA GCCAGGGCCACAGGGTGCCTGGGGCCAGCCCTGCCAGCCGGTGTCTCAGCCCCGCGTA GTGCCTGCAGCTGGTGGGCCACTTTCTCCAGCTCTGCCTCAATGGCCGACAGGCTCTCCA GCTCCTGGTCTCTGGTCTGCGGTTTGCCTGCCCTCCTCCTTTCTTCTCCTCGGGGT AGCCTCGGACCTGGAGGGGACAGGCCCGCTCAAGGCTGTCTCCCGGAGGATGGCTCC AGCCTCGTCGAGCTGCGGCCAGGGCCCTGAAGCCGTAGGCCCGGGCCCGGAAGGAGA GCTTCATGGAAGTGTCCCGTTGTCTCCTCCTTCTCCTGCCCTCCAGCCGTTCTCAG CCGTCAGCTCCTGGCCAGCTGGTCCATCTTGCTCCAGCGTTTGGAGTCTCCACTCCT TGGAGAGCCGNTCTCTNCTGCTCCAGCTCTCCGCTTTTCCACCCCGNAGAAGCCTT GCGGGACCACTGNCAATTTNCTNCTCTTCTGCTGGGAGTGCTCCTGTNCTCCCT TCCTTTCGGGTCTGAGCCTTCTCAGCCCAGCTT
Restriction Sites:	NotI-NotI
ACCN:	NM_001275
Insert Size:	2210 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:	<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_001275.2</u> , <u>NP_001266.1</u>
RefSeq Size:	1994 bp
RefSeq ORF:	1374 bp
Locus ID:	1113
UniProt ID:	<u>P10645</u>
Cytogenetics:	14q32.12
Domains:	Granin
Protein Families:	Druggable Genome, Secreted Protein

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 (1) represents the longer transcript and encodes the longer isoform (1).