

## Product datasheet for **SC323935**

### Granulin (GRN) (NM\_002087) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Granulin (GRN) (NM_002087) Human Untagged Clone
Tag:	Tag Free
Symbol:	Granulin
Synonyms:	CLN11; GEP; GP88; PCDGF; PEPI; PGRN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_002087.2  
 CAGGCAGACCATGTGGACCCTGGTGAGCTGGGTGGCCTTAACAGCAGGGCTGGTGGCTGG  
 AACGCGGTGCCAGATGGTCAGTTCTGCCCTGTGGCCTGCTGCCTGGACCCCGGAGGAGC  
 CAGCTACAGCTGCTGCCGTCCCCCTTCTGGACAAATGGCCACAACACTGAGCAGGCATCT  
 GGGTGGCCCTGCCAGGTTGATGCCACTGCTCTGCCGGCCACTCCTGCATCTTTACCGT  
 CTCAGGGACTTCCAGTTGCTGCCCTTCCCAGAGGCCGTGGCATGCGGGGATGGCCATCA  
 CTGCTGCCACGGGGCTTCCACTGCAGTGCAGACGGGCGATCCTGCTTCCAAAGATCAGG  
 TAACAACCTCCGTGGGTGCCATCCAGTGCCCTGATAGTCAGTTCGAATGCCCGGACTTCTC  
 CACGTGCTGTATTGGTCGATGGCTCCTGGGGTGTGCCCATGCCAGGCTTCTCTG  
 CTGTGAAGACAGGGTGCCTGCTGTCCGCACGGTGCCCTTCTGCGACCTGGTTACACCCG  
 CTGCATCACACCCACGGGCACCCACCCCTGGCAAAGAAGCTCCCTGCCAGAGGACTAA  
 CAGGGCAGTGGCCTTGTCCAGCTCGGTGATGTGTCGGACGCACGGTCCCGGTGCCCTGA  
 TGGTTCTACCTGCTGTGAGCTGCCAGTGGGAAGTATGGCTGCTGCCAATGCCAACGC  
 CACCTGCTGCTCCGATCACCTGCACTGCTGCCCAAGACACTGTGTGTGACCTGATCCA  
 GAGTAAGTGCCTCTCAAGGAGAAGCTACCACGGACCTCCTACTAAGCTGCCTGCGCA  
 CACAGTGGGGGATGTGAAATGTGACATGGAGGTGAGCTGCCAGATGGCTATACCTGCTG  
 CCGTCTACAGTCGGGGGCTGGGGCTGCTGCCCTTTTACCCAGGCTGTGTGCTGTGAGGA  
 CCACATACACTGCTGTCCCGCGGGTTTACGTGTGACACGCAGAAGGGTACCTGTGAACA  
 GGGGCCACACAGGTGCCCTGGATGGAGAAGGCCCCAGCTCACCTCAGCCTGCCAGACCC  
 ACAAGCCTTGAAGAGAGATGTCCCTGTGATAATGTCAGCAGCTGTCCCTCCTCCGATAC  
 CTGCTGCCAACTACGCTGTTGGGAGTGGGGCTGCTGTCCAATCCCAGAGGCTGTCTGCTG  
 CTCGGACCACAGCACTGCTGCCCCAGGGCTACACGTGTGTAGCTGAGGGGCAAGTGTCA  
 GCGAGGAAGCGAGATCGTGGCTGGACTGGAGAAGATGCCTGCCCGCCGGGCTTCCCTATC  
 CCACCCAGAGACATCGGCTGTGACCAGCACACCAGCTGCCCGGTGGGGCAGACCTGCTG  
 CCCGAGCCTGGGTGGGAGCTGGGCTGCTGCCAGTTGCCCATGCTGTGTGCTGCGAGGA  
 TCGCCAGCACTGCTGCCCGGCTGGCTACACCTGCAACGTGAAGGCTCGATCCTGCGAGAA  
 GGAAGTGGTCTCTGCCAGCCTGCCACCTTCTGGCCCGTAGCCCTCACGTGGGTGTGAA  
 GGACGTGGAGTGTGGGAAGGACACTTCTGCCATGATAACCAGACCTGCTGCCGAGACAA  
 CCGACAGGGCTGGGCTGCTGTCCCTACCGCCAGGGCGTCTGTTGTGCTGATCGGCGCCA  
 CTGCTGTCTGCTGGCTTCCGCTGCGCAGCCAGGGGTACCAAGTGTGTCGCGAGGAGGC  
 CCCGCGTGGGACGCCCTTTGAGGGACCCAGCCTTGAGACAGCTGCTGTGAGGGACAGT  
 ACTGAAGACTCTGCAGCCCTCGGACCCCACTCGGAGGGTGCCTCTGCTCAGGCCTCCC  
 TAGCACCTCCCCCTAACCAAAATCTCCCTGGACCCATTCTGAGCTCCCCATCACCATGG  
 GAGGTGGGGCCTCAATCTAAGGCCTTCCCTGTCAGAAGGGGGTTGTGGCAAAGCCACAT  
 TACAAGCTGCCATCCCCTCCCCTTTTCAAGTGGACCCTGTGGCCAGGTGCTTTTCCCTATC  
 CACAGGGGTGTTGTGTGTGTCGCGTGTGCGTTTCAATAAAGTTGTACTACTTTCAAAA  
 AAAAAAAAAA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_002087

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<b>Components:</b>	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>	<u><a href="#">NM_002087.2</a></u> , <u><a href="#">NP_002078.1</a></u>
<b>RefSeq Size:</b>	2323 bp
<b>RefSeq ORF:</b>	1782 bp
<b>Locus ID:</b>	2896
<b>UniProt ID:</b>	<u><a href="#">P28799</a></u>
<b>Cytogenetics:</b>	17q21.31
<b>Domains:</b>	GRAN
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Gene Summary:</b>	<p>Granulins are a family of secreted, glycosylated peptides that are cleaved from a single precursor protein with 7.5 repeats of a highly conserved 12-cysteine granulin/epithelin motif. The 88 kDa precursor protein, progranulin, is also called proepithelin and PC cell-derived growth factor. Cleavage of the signal peptide produces mature granulin which can be further cleaved into a variety of active, 6 kDa peptides. These smaller cleavage products are named granulin A, granulin B, granulin C, etc. Epithelins 1 and 2 are synonymous with granulins A and B, respectively. Both the peptides and intact granulin protein regulate cell growth. However, different members of the granulin protein family may act as inhibitors, stimulators, or have dual actions on cell growth. Granulin family members are important in normal development, wound healing, and tumorigenesis. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>