

Product datasheet for SC123989

Pepsinogen II (PGC) (NM_002630) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pepsinogen II (PGC) (NM_002630) Human Untagged Clone
Tag:	Tag Free
Symbol:	Pepsinogen II
Synonyms:	PEPC; PGII
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC123989 sequence for NM_002630 edited (data generated by NextGen Sequencing)

```

ATGAAGTGGATGGTGGTGGTCTTGGTCTGCCTCCAGCTCTTGGAGGCAGCAGTGGTCAAA
GTGCCCTGAAGAAATTTAAGTCTATCCGTGAGACCATGAAGGAGAAGGGCTTGCTGGGG
GAGTTCCTGAGGACCCACAAGTATGATCCTGCTTGAAGTACCGCTTTGGTGACCTCAGC
GTGACCTACGAGCCCATGGCCTACATGGATGCTGCCTACTTTGGTGGATCAGCATCGGG
ACTCCACCCAGAACTTCTGGTCTTTTTGACACCGGCTCCTCCAACCTGTGGGTGCC
TCTGTCTACTGCCAGAGCCAGGCTGCACCAGTCACTCCCGCTTCAACCCAGCGAGTCG
TCCACCTACTCCACCAATGGGCAGACCTTCTCCCTGCAGTATGGCAGTGGCAGCCTCACC
GGCTTCTTTGGCTATGACACCCTGACTGTCCAGAGCATCCAGGTCCCAACCAGGAGTTC
GGCTTGAGTGAGAATGAGCCTGGTACCAACTTCGTCTATGCGCAGTTTGATGGCATCATG
GGCCTGGCCTACCTGCTCTGTCCGTGGATGAGGCCACCACAGCTATGCAGGGCATGGTG
CAGGAGGGCGCCCTCACCAGCCCGTCTTCAGCGTCTACCTCAGCAACCAGCAGGGCTCC
AGCGGGGGAGCGGTTGTCTTTGGGGGTGGATAGCAGCCTGTACACGGGGCAGATCTAC
TGGGCGCCTGTACCCAGGAACCTACTGGCAGATTGGCATTGAAGAGTTCCTCATCGGC
GGCCAGGCTCCGGCTGGTGTCTGAGGGTTGCCAGGCCATCGTGGACACAGGCACCTCT
CTGCTCACTGTGCCCCAGCAGTACATGAGTGTCTTCTGCAGGCCACAGGGGCCAGGAG
GATGAGTATGGACAGTTTCTCGTGAACGTAAACAGCATTGAGAATCTGCCAGCTTGACC
TTCATCATCAATGGTGTGGAGTTCCTCTGCCACCTTCCCTCTATATCCTCAGTAAACAC
GGCTACTGCACCGTGGGAGTCGAGCCACCTACCTGTCCCTCCAGAACGGCCAGCCCTG
TGGATCCTCGGGGATGTCTTCTCAGGTCTACTATTCCGTCTACGACTTGGGCAACAAC
AGAGTAGGCTTTGCCACTGCCGCTAG

```

Clone variation with respect to NM_002630.3



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002630 unedited
 CAGATTTTGTAAACGACTCACTATAGGGCGGCCGCAATTCGCACGAGNAACTCAGAGC
 TGCTCTTCTCTGTGGCCAGTTGGGGACCAGCATCATGAAGTGGATGGTGGTGGTCTTGG
 TCTGCCTCCAGCTCTTGGAGGCAGCAGTGGTCAAAGTGCCCTGAAGAAATTTAAGTCTA
 TCCGTGAGACCATGAAGGAGAAGGGCTTGTGGGGAGTTCCTGAGGACCCACAAGTATG
 ATCCTGCTAGGAAGTACCGCTTTGGTGACCTCAGCGTGACCTACGAGCCCATGGCCTACA
 TGGATGCTGCCTACTTTGGTGAGATCAGCATCGGGACTCCACCCAGAACTTCCTGGTCC
 TTTTGTACACCGCTCCTCCAACCTTGTGGTGCCCTCTGTCTACTGCCAGAGCCAGGCCT
 GCACCACTCACTCCCGCTTCAACCCCGGCGAGTCGTCCACCTACTCCACCAATGGGCAGA
 CCTTCTCCCTGCAGTATGGCAGTGGCAGCCTCACCGGCTTCTTTGGCTATGACACCCGA
 GCGGCCAAAACATCCAGGTCCCCAACAGAAATTCGGCTTGATTGAAAATGAACCTGGTA
 CCAATTTGTCTATGCGCAATTTGAGTGATATGGGCCGTGGCTACACCTGTCTGGCCGGG
 GAGAGGCCACCCAGCTTATACAGGGCATAGTGAACGGAGGCCCTAAACAAGCCCGGTT
 TAGAGCTTTCATGAACAACCCACGAGGGCTCCCCGGGGGGCCGATAGGCTTGGCCGAG
 TGGGTATACACCACTGTACCGACCCCAATAAACGGAGCAGATGTGTCAATACGTCTAGG
 TTGGCGGAATGCGTGGAGAAGAAAAAGCGAGGAAGGGAGCGATAACCGGGTAGTGTAAAC
 GAGCAATGATTCTACAGTTATGTGCGAAGACAGCAAAGCCAGTAATCTGCGCCGAAGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002630 unedited
 TGGGGAAGTGNNNTTTTGCATGCGTGTCACTTCCCGCCAGGAGAGGCACTGNGGAGGGG
 TCAAGGGATGCCACCCGGATCTGTTTCCAGGAAACAGCTATGACCGCGCCCAATCTAGA
 GTCGAGTTTTTTTTTTTTTTTTTAAAGAAGAATAATTTATTATTAGAGAAAGTCCAGA
 GTCCAGAAAAAGAAGGCTGAATCCAGAGTGAAAGACAGATACAATGCCCTAGGAGGGTG
 CAGGGTCAAGAGGAAGAGGGGAGCCACGTGTCGAGGCAGCAAGTCTAGGCGGCAGTGGC
 AAAGCCTACTCTGTTGTTGCCAAAGTCGTAGACGGAATAGTAGGACCTGAGGAAGACATC
 CCCGAGGATCCACAGGGGCTGGCCGTTCTGGGAGGACAGGTAGGTGGGCTCGACTCCCAC
 GGTGCAGTAGCCGTTGTTACTGAGGATATAGGAGGAAGGTGGCAGAGGGAATCCACACC
 ATTGATGATGAAGGTCAAGCTGGGCAGATTCTGAATGCTGTTACAGTTCACGAGAAACTG
 TCCATACTCATCTCCTGGGCCCTGTGGCCTGCAGAAGAGCACTCATGTACTGGCTGGG
 CACAGTGAGCAAAAAGGTGCCTGTGTCCACGATGGCCTGGGCACCCTCAGAACACCAGCC
 CGAGGCCTGCCCGCCGATGAAGAACCTCTCAATGCAAATCTTGCAATTNAAGTTTCTGGTG
 ACAGGGCCCAATAATACGTGCCGGGTGAGGCTGGTTTCCACCCCAAGAAACCGGTTCC
 CCGGTTGGACCCTGCTGTTGCGT

Restriction Sites:

Please inquire

ACCN:

NM_002630

Insert Size:

1700 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:	NM_002630.1 , NP_002621.1
RefSeq Size:	1366 bp
RefSeq ORF:	1167 bp
Locus ID:	5225
UniProt ID:	P20142
Cytogenetics:	6p21.1
Protein Families:	Protease, Secreted Protein
Gene Summary:	<p>This gene encodes an aspartic proteinase that belongs to the peptidase family A1. The encoded protein is a digestive enzyme that is produced in the stomach and constitutes a major component of the gastric mucosa. This protein is also secreted into the serum. This protein is synthesized as an inactive zymogen that includes a highly basic prosegment. This enzyme is converted into its active mature form at low pH by sequential cleavage of the prosegment that is carried out by the enzyme itself. Polymorphisms in this gene are associated with susceptibility to gastric cancers. Serum levels of this enzyme are used as a biomarker for certain gastric diseases including Helicobacter pylori related gastritis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 1. [provided by RefSeq, Oct 2009]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>