

Product datasheet for SC315746

Pepsin (PGA4) (NM_001079808) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pepsin (PGA4) (NM_001079808) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGA4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315746 representing NM_001079808. Blue=Insert sequence Red=Cloning site Green=Tag(s)

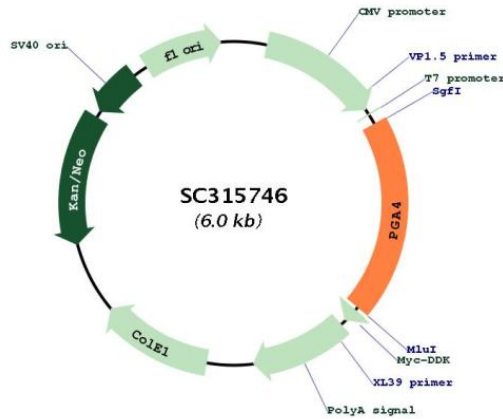
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGTGGCTGCTGCTGCTGGGTCTGGTGGCGCTCTCTGAGTGCATCATGTACAAGTCCCCCTCATC
AGAAAGAAGTCCCTTGAGGCGCACCTGTCCGAGCGTGGCTGCTGAAGGACTTCTGAAGAAGCACAAAC
CTCAACCCAGCCAGAAAGTACTTCCCCAGTGGGAGGCTCCCACCTGGTAGATGAACAGCCCCTGGAG
AACTACCTGGATATGGAGTACTTCGGCACTATCGGCATCGGAACCTCTGCCAGGATTTACCGTCGTC
TTTGACACCGGCTCCTCCAACCTGTGGTGCCCTCAGTCTACTGCTCCAGTCTTGCCCTGCACCAACCAC
AACCGCTTCAACCTGAGGATTCTCCACCTACCAGTCCACCAGCGAGACAGTCTCCATCACCTACGGC
ACCGGCAGCATGACAGGCATCCTCGGATACGACACTGTCCAGTTGGAGGCATCTCTGACACCAATCAG
ATCTTCGGCCTGAGCGAGACGGAACCTGGCTCCTTCTGTATTATGCTCCCTTCGATGGCATCCTGGGG
CTGGCCTACCCAGCATTTCTCTCTCCGGGGCCACCCCGTCTTTGACAACATCTGGAACAGGGCCTG
GTTTCTCAGGACCTTTCTGTCTACCTCAGCGCCGATGACCAGAGTGGCAGCGTGGTATCTTTGGT
GGCATTGACTCTTCTACTACACTGGAAGTCTGAACTGGTGCCTGTTACCGTCGAGGGTACTGGCAG
ATCACCGTGGACAGCATCACCATGAACGGAGAGGCCATCGCTGCGCTGAGGGCTGCCAGGCCATTGTT
GACACCGGCACCTCTCTGCTGACCGGCCAACCCAGCCCCATTGCCAACATCCAGAGCGACATCGGAGCC
AGCGAGAACTCAGATGGCGACATGGTGGTCAGCTGCTCAGCCATCAGCAGCTGCCCGACATCGTCTTC
ACCATCAATGGAGTCCAGTACCCCGTGCCACCCAGTGCCTACATCCTGCAGAGCGAGGGGAGCTGCATC
AGTGGCTTCCAGGGCATGAACCTCCCCACCGAATCTGGAGAGCTTTGGATCCTGGGTGATGTCTTCATC
CGCCAGTACTTTACCGTCTTCGACAGGGCAAACAACAGGTGCGCCTGGCCCCCGTGGCTTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-MluI



[View online »](#)

Plasmid Map:



ACCN: NM_001079808

Insert Size: 1167 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).

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.

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_001079808.3](#)

RefSeq Size: 1383 bp

RefSeq ORF: 1167 bp

Locus ID: 643847

UniProt ID: [P00790](#)

Cytogenetics: 11q12.2

Protein Families: Druggable Genome

MW: 42 kDa

Gene Summary: This gene encodes a protein precursor of the digestive enzyme pepsin, a member of the peptidase A1 family of endopeptidases. The encoded precursor is secreted by gastric chief cells and undergoes autocatalytic cleavage in acidic conditions to form the active enzyme, which functions in the digestion of dietary proteins. This gene is found in a cluster of related genes on chromosome 11, each of which encodes one of multiple pepsinogens. Pepsinogen levels in serum may serve as a biomarker for atrophic gastritis and gastric cancer. [provided by RefSeq, Jul 2015]