

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:	Pepsin
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)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGAAGTGGCTGCTGCTGGGTCTGGTGGCGCTCTCTGAGTGCATCATGTACAAGGTCCCCCTCATC
AGAAAGAAGTCCTTGAGGCGCACCTGTCCGAGCGTGGCTGCTGAAGGACTTCTGAAGAAGCACAAAC
CTCAACCCAGCCAGAAAGTACTTCCCCAGTGGGAGGCTCCACCCCTGGTAGATGAACAGCCCCTGGAG
AACTACCTGGATATGGAGTACTTCGGCACTATCGGCATCGGAACCTCTGCCAGGATTTACCGTCGTC
TTTGACACCGGCTCCTCAACCTGTGGGTGCCCTCAGTCTACTGCTCCAGTCTTGCTGCACCAACCAC
AACCGCTTCAACCTGAGGATTCTTCCACCTACCAGTCCACGAGGAGACAGTCTCCATCACCTACGGC
ACCGGCAGCATGACAGGCATCCTCGGATACGACACTGTCCAGTTGGAGGCATCTCTGACACCAATCAG
ATCTTCGGCCTGAGCGAGACGGAACCTGGCTCCTTCTGTATTATGCTCCCTTCGATGGCATCCTGGGG
CTGGCCTACCCAGCATTTCTCCTCCGGGGCCACACCCGTCTTGACAACATCTGGAACAGGGCCTG
GTTTCTCAGGACCTCTTCTGTCTACCTCAGCGCCGATGACCAGAGTGGCAGCGTGGTGATCTTTGGT
GGCATTGACTCTTCTACTACCTGGAAGTCTGAACTGGGTGCCTGTTACCGTCGAGGGTACTGGCAG
ATCACCGTGGACAGCATCACCATGAACGGAGAGGCCATCGCCTGCGCTGAGGGCTGCCAGGCCATTGTT
GACACCGGCACCTCTCTGCTGACCGGCCAACAGCCCCATTGCCAACATCCAGAGCGACATCGGAGCC
AGCGAGAACTCAGATGGCGACATGGTGGTCAGCTGCTCAGCCATCAGCAGCCTGCCGACATCGTCTTC
ACCATCAATGGAGTCCAGTACCCCGTGCCACCCAGTGCCTACATCCTGCAGAGCGAGGGGAGCTGCATC
AGTGGCTTCCAGGGCATGAACCTCCCCACCGAATCTGGAGAGCTTTGGATCCTGGGTGATGTCTTCATC
CGCCAGTACTTTACCGTCTTCGACAGGGCAAACAACAGGTGGCCTGGCCCCCGTGGCT**TAA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001079808



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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:	<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_001079808.3</u>
RefSeq Size:	1383 bp
RefSeq ORF:	1167 bp
Locus ID:	643847
UniProt ID:	<u>P00790</u>
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]