

Product datasheet for **RG206809**

Pepsin (PGA5) (NM_014224) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pepsin (PGA5) (NM_014224) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pepsin
Synonyms:	Pg5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206809 representing NM_014224 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTGGCTGCTGCTGGGTCTGGTGGCGCTCTCTGAGTGCATCATGTACAAGTCCCCCTCATCA
GAAAGAAGTCCTTGAGGGCGACCCTGTCCGAGCGTGGCTGTGAAGGACTTCTGAAGAAGCACAACT
CAACCCAGCCAGAAAGTACTTCCCCAGTGGGAGGCTCCCACCCTGGTAGATGAACAGCCCTGGAGAAC
TACCTGGATATGGAGTACTTCGGCACTATCGGCATCGAACTCCTGCCAGGATTCACCGTCGTCTTTG
ACACCGGCTCCTCCAACCTGTGGGTGCCCTCAGTCTACTGCTCCAGTCTTGCCTGCACCAACCACAACCG
CTTCAACCCTGAGGATTCTCCACCTACCAGTCCACCAGCGAGACAGTCTCCATCACCTACGGCACCGGC
AGCATGACAGGCATCCTCGGATACGACACTGTCCAGGTTGGAGGCATCTCTGACACCAATCAGATCTTCG
GCCTGAGCGAGACGGAACCTGGCTCCTTCTGTATTATGCTCCCTTCGATGGCATCCTGGGGCTGGCCTA
CCCCAGCATTTCTCCTCCGGGGCCACACCCGTCTTTGACAACATCTGGAACCCAGGGCCTGGTTTCTCAG
GACCTCTTCTCTGTCTACCTCAGCGCCGATGACAAGAGTGGCAGCGTGGTATCTTTGGTGGCATTGACT
CTTCTTACTACTGGAAGTCTGAACTGGGTGCCTGTTACCGTCGAGGGTTACTGGCAGATCACCGTGA
CAGCATCACCATGAACGGAGAGACCATCGCCTGTGCTGAGGGCTGCCAGGCCATTGTTGACACCGGCACC
TCTCTGCTGACCGGCCAACAGCCCCATTGCCAACATCCAGAGCGACATCGGAGCCAGGAGAATCAG
ATGGCGACATGGTGGTCAGCTGCTCAGCCATCAGCAGCCTGCCGACATCGTCTTACCATCAATGGAGT
CCAGTACCCCGTCCACCCAGTGCCTACATCCTGCAGAGCGAGGGGAGCTGCATCAGTGGCTTCCAGGGC
ATGAACGTCCCCACCGAATCTGGAGAGCTTTGGATCCTGGGTGATGTCTTCATCCGCCAGTACTTTACCG
TCTTCGACAGGGCAAACAACCAGGTCGGCCTGGCCCTGTGGCT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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_014224.5](#)

RefSeq Size: 1398 bp

RefSeq ORF: 1167 bp

Locus ID: 5222

UniProt ID: [P00790](#)

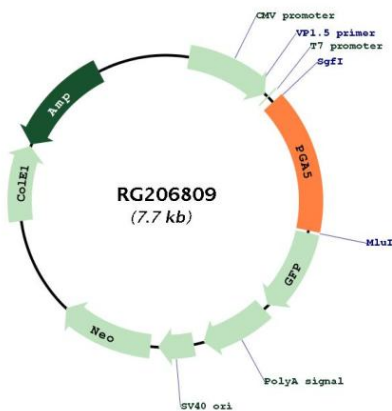
Cytogenetics: 11q12.2

Domains: asp

Protein Families: Druggable Genome, Protease, Secreted Protein

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]

Product images:



Circular map for RG206809