

Product datasheet for **RC216098**

PGA3 (NM_001079807) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGA3 (NM_001079807) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PGA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216098 representing NM_001079807 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTGGCTGCTGCTGCTGGGTCTGGTGGCACTCTCTGAGTGCATCATGTACAAGGTCCCCCTCATCA
 GAAAGAAGTCCTTGAGGCGCACCTGTCCGAGCGTGGCCTGCTGAAGGACTTCCTGAAGAAGCACAACT
 CAACCCAGCCAGAAAGTACTTCCCCAGTGAAGGCTCCCACCTGGTAGATGAACAGCCCTGGAGAAC
 TACCTGGATATGGAGTACTTCGGCACTATCGGCATCGGAACCTCTGCCAGGATTTCACCGTCGTCTTTG
 ACACCGGCTCCTCAACCTGTGGGTGCCCTCAGTCTACTGCTCCAGTCTTGCTGCACCAACCACAACCG
 CTTCAACCTGAGGATTCTTCCACCTACCAGTCCACCAGCGAGACAGTCTCCATCACCTACGGCACCGGC
 AGCATGACAGGCATCCTCGGATACGACACTGTCCAGGTTGGAGGCATCTCTGACACCAATCAGATCTTCG
 GCCTGAGCGAGACGGAACCTGGCTCCTTCTGTATTATGCTCCCTTCGATGGCATCCTGGGGCTGGCCTA
 CCCCAGCATTTCTCCTCCGGGGCCACACCCGTCTTGACAACATCTGGAACAGGGCTGGTTTCTCAG
 GACCTCTTCTGTCTACCTCAGCGCCGATGACCAGAGTGGCAGCGTGGTATCTTTGGTGGCATTGACT
 CTTCTTACTACTGGAAGTCTGAAGTGGGTGCCTGTTACCGTCGAGGGTACTGGCAGATCACCGTGA
 CAGCATACCATGAACGGAGAGGCCATCGCCTGCGCTGAGGGCTGCCAGGCCATTGTTGACACCGGCACC
 TCTCTGCTGACCGGCCAACAGCCCCATTGCCAATCCAGAGCGACATCGGAGCCAGCGAGAAGTCAAG
 ATGGCGCATGGTGGTCAGCTGCTCAGCCATCAGCAGCCTGCCCGACATCGTCTTACCATCAATGGAGT
 CCAGTACCCCGTCCACCCAGTGCTACATCCTGCAGAGCGAGGGGAGCTGCATCAGTGGCTTCCAGGGC
 ATGAACCTCCCCACCGAATCTGGAGAGCTTTGGATCCTGGGTGATGTCTTCATCCGCCAGTACTTTACCG
 TCTTCGACAGGGCAAACAACAGGTCCGGCTGGCCCCGTGGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


[View online »](#)

Protein Sequence: >RC216098 representing NM_001079807

Red=Cloning site Green=Tags(s)

MKWLLLLGLVALSECIMYKVLIRKKSRLRRLSERGLLKDFLKKHNLNPARKYFPQWKAPTLVDEQPLEN
 YLDMEYFGTIGITGPAQDFTVVFDTGSSNLWVPSVYCSSLACTNHNRFNPEDSSYQSTSETVSITYGTG
 SMTGILGYDTVQVGGISDTNQIFGLSETPEGSFLYYAPFDGILGLAYPSTSSSGATPVFDNIWNQGLVSQ
 DLFVSYL SADDQSGSVVIFGGIDSSYYTGSNLWNVPVTVEGYQWITVDSITMNGEAIACAEGCQAI VDTGT
 SLLTGPTSPIANIQSDIGASENSDDMYVSCSAISLPLDIFVTINGVQYPVPPSAYILQSEGCISIGFQG
 MNLPTESGELWTLGDVFIROYFTVFDNRANNOVLAPLVA

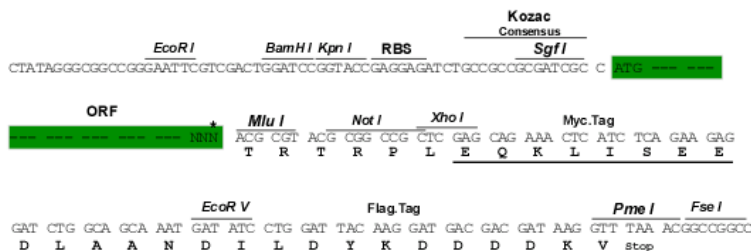
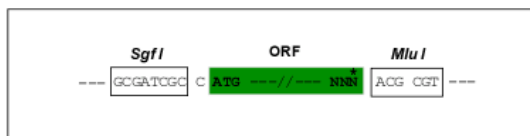
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8103_a10.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001079807

ORF Size: 1164 bp

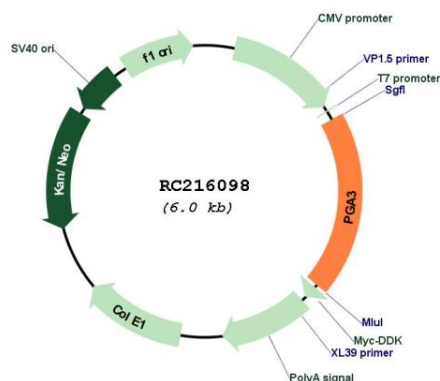
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

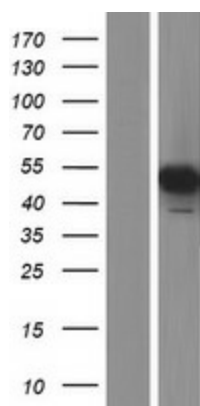
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001079807.4</u>
RefSeq Size:	1396 bp
RefSeq ORF:	1167 bp
Locus ID:	643834
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]

Product images:



Circular map for RC216098



Western blot validation of overexpression lysate (Cat# [LY421542]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216098 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).