Datasheet for ABIN4925594

Human PGA4 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	PGA4
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PExp)

Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human PGA4 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1167 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGAAGTGGC TGCTGCTGCT GGGTCTGGTG GCGCTCTCTG AGTGCATCAT GTACAAGGTC CCCCTCATCA GAAAGAAGTC CTTGAGGCGC ACCCTGTCCG AGCGTGGCCT GCTGAAGGAC TTCCTGAAGA AGCACAACCT CAACCCAGCC AGAAAGTACT TCCCCCAGTG GGAGGCTCCC ACCCTGGTAG ATGAACAGCC CCTGGAGAAC TACCTGGATA TGGAGTACTT CGGCACTATC GGCATCGGAA CTCCTGCCCA GGATTTCACC GTCGTCTTTG ACACCGGCTC CTCCAACCTG

Product Details

	TGGGTGCCCT CAGTCTACTG CTCCAGTCTT GCCTGCACCA ACCACAACCG CTTCAACCCT GAGGATTCTT CCACCTACCA GTCCACCAGC GAGACAGTCT CCATCACCTA CGGCACCGGC AGCATGACAG GCATCCTCGG ATACGACACT GTCCAGGTTG GAGGCATCTC TGACACCAAT CAGATCTTCG GCCTGAGCGA GACGGAACCT GGCTCCTTCC TGTATTATGC TCCCTTCGAT GGCATCCTGG GGCTGGCCTA CCCCAGCATT TCCTCCTCCG GGGCCACACC CGTCTTTGAC AACATCTGGA ACCAGGGCCT GGTTTCTCAG GACCTCTTCT CTGTCTACCT CAGCGCCGAT GACCAGAGTG GCAGCGTGGT GATCTTTGGT GGCATTGACT CTTCTTACTA CACTGGAAGT CTGAACTGGG TGCCTGTTAC CGTCGAGGGT TACTGGCAGA TCACCGTGGA CAGCATCACC ATGAACGGAG AGGCCATCGC CTGCGCTGAG GGCTGCCAGG CCATTGTTGA CACCGGCACC TCTCTGCTGA CCGGCCCAAC CAGCCCCATT GCCAACATCC AGAGCGACAT CGGAGCCAGC GAGAACTCAG ATGGCGACAT GGTGGTCAGC TGCTCAGCCA TCAGCAGCCT GCCCGACATC GTCTTCACCA TCAATGGAGT CCAGTACCCC GTGCCACCCA GTGCCTACAT CCTGCAGAGC GAGGGGAGCT GCATCAGTGG CTTCCAGGGC ATGAACCTCC CCACCGAATC TGGAGAGCTT TGGATCCTGG GTGATGTCTT CATCCGCCAG TACTTTACCG TCTTCGACAG GGCAAACAAC CAGGTCGGCC TGGCCCCCGT GGCTTAA
Specificity:	ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology
Characteristics:	Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.
Sequencing Primer:	• Forward primer: 5'-TAATACGACTCACTATAGGG-3' • Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'
Grade:	End-sequenced
Components:	The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

Target Details

Gene:	PGA4
Alternative Name:	PGA4 (PGA4 Products)
Background:	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

Target Details

	levels in serum may serve as a biomarker for atrophic gastritis and gastric cancer. [provided by RefSeq, Jul 2015].
Gene ID:	643847
NCBI Accession:	NM_001079808

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Storage:	RT/-20 °C
Storage Comment:	• Keep the vial sealed and store at -20°C for long-term storage. • Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C. • Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA. • If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA. • Close the lid and vortex the vial for 1 minute. • Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.
Expiry Date:	12 months

Publications

Product cited in:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)