

## **Product datasheet for TP310051**

#### OriGene Technologies, Inc.

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# Pepsinogen II (PGC) (NM\_002630) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human progastricsin (pepsinogen C) (PGC), 20 μg

Species: Human
Expression Host: HEK293T

**Expression cDNA Clone** >RC210051 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MKWMVVVLVCLQLLEAAVVKVPLKKFKSIRETMKEKGLLGEFLRTHKYDPAWKYRFGDLSVTYEPMAYMD AAYFGEISIGTPPQNFLVLFDTGSSNLWVPSVYCQSQACTSHSRFNPSESSTYSTNGQTFSLQYGSGSLT GFFGYDTLTVQSIQVPNQEFGLSENEPGTNFVYAQFDGIMGLAYPALSVDEATTAMQGMVQEGALTSPVF SVYLSNQQGSSGGAVVFGGVDSSLYTGQIYWAPVTQELYWQIGIEEFLIGGQASGWCSEGCQAIVDTGTS LLTVPQQYMSALLQATGAQEDEYGQFLVNCNSIQNLPSLTFIINGVEFPLPPSSYILSNNGYCTVGVEPT YLSSQNGQPLWILGDVFLRSYYSVYDLGNNRVGFATAA

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

Tag: C-Myc/DDK

Predicted MW: 40.5 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 002621

**Locus ID:** 5225



#### Pepsinogen II (PGC) (NM\_002630) Human Recombinant Protein - TP310051

UniProt ID: P20142

RefSeq Size: 1392 Cytogenetics: 6p21.1 RefSeq ORF: 1164

Synonyms: PEPC; PGII

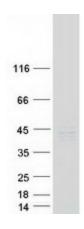
**Summary:** This gene encodes an aspartic proteinase that belongs to the peptidase family A1. The

encoded protein is a digestive enzyme that is produced in the stomach and constitutes a major component of the gastric mucosa. This protein is also secreted into the serum. This protein is synthesized as an inactive zymogen that includes a highly basic prosegment. This enzyme is converted into its active mature form at low pH by sequential cleavage of the prosegment that is carried out by the enzyme itself. Polymorphisms in this gene are associated with susceptibility to gastric cancers. Serum levels of this enzyme are used as a biomarker for certain gastric diseases including Helicobacter pylori related gastritis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on

chromosome 1. [provided by RefSeq, Oct 2009]

**Protein Families:** Protease, Secreted Protein

### **Product images:**



Coomassie blue staining of purified PGC protein (Cat# TP310051). The protein was produced from HEK293T cells transfected with PGC cDNA clone (Cat# [RC210051]) using MegaTran 2.0 (Cat# [TT210002]).