

## Product datasheet for **TP311038L**

### Securin (PTTG1) (NM\_004219) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human pituitary tumor-transforming 1 (PTTG1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211038 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MATLIYVDKENGEPGTRVAKDGLKLGSGPSIKALDGRSQVSTPRFGKTFDAPPALPKATRKALGTVNRA TEKSVKTKGPKLQKQPSFSAKKMTEKTVKAKSSVPASDDAYPEIEKFFPFNPLDFESFDLPEEHQIAHLP LSGVPLMILDEERELEKLFQLGPPSPVKMPSPPWESNLLQSPSSILSTLDVELPPVCCDIDI
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	21.8 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:	<a href="#">NP_004210</a>
Locus ID:	9232
UniProt ID:	<a href="#">O95997</a> , <a href="#">Q6IAL9</a>
RefSeq Size:	786



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Cytogenetics: 5q33.3

RefSeq ORF: 606

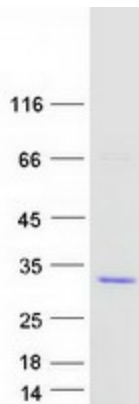
Synonyms: EAP1; HPTTG; PTTG; TUTR1

**Summary:** The encoded protein is a homolog of yeast securin proteins, which prevent separins from promoting sister chromatid separation. It is an anaphase-promoting complex (APC) substrate that associates with a separin until activation of the APC. The gene product has transforming activity in vitro and tumorigenic activity in vivo, and the gene is highly expressed in various tumors. The gene product contains 2 PXXP motifs, which are required for its transforming and tumorigenic activities, as well as for its stimulation of basic fibroblast growth factor expression. It also contains a destruction box (D box) that is required for its degradation by the APC. The acidic C-terminal region of the encoded protein can act as a transactivation domain. The gene product is mainly a cytosolic protein, although it partially localizes in the nucleus. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Sep 2013]

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Cell cycle, Oocyte meiosis

### Product images:



Coomassie blue staining of purified PTTG1 protein (Cat# [TP311038]). The protein was produced from HEK293T cells transfected with PTTG1 cDNA clone (Cat# [RC211038]) using MegaTran 2.0 (Cat# [TT210002]).