

## Product datasheet for TP322498M

### Proprotein Convertase 2 (PCSK2) (NM\_002594) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human proprotein convertase subtilisin/kexin type 2 (PCSK2), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC222498 representing NM_002594 Red=Cloning site Green=Tags(s)

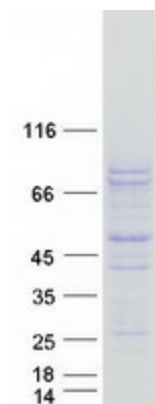
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 Y  
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 DG  
 TPGLDLNVAEAWELGYTGKGVITIGIMDDGIDYLHPDLASNYNAEASYDFSSNDPYPYPRYTDDWFNSHGT  
 RCAGEVSAAANNNICGVGVAYNSKVAGIRMLDQPFMTDIEASSISHMPQLIDIYSASWGPTDNGKTVDG  
 PRELTQAMADGVNKGRRGGKGSIVWASGDGGSYDDCNCDDGYASSMWTISINSAINDGRTALYDESCSST  
 LASTFSNGRKRNPAGVATTDLYGNCTLRHSGTSAAPEAAGVFALALEANLGLTWRDMQHLTVLTSKRN  
 QLHDEVHQWRRNGVGLFNLHFGYGVLDAGAMVKMAKDWTVPERFHCVGGSVQDPEKIPSTGKLV  
 TLT  
 TDACEGKENFVRYLEHVQAVITVNATRRGDLNINMTSPMGTKSILLSRRPRDDDSKVGFDKWPFTTHT  
 W  
 GEDARGTWTLELGFVGSAPQKGVLEWTLMLHGTQSAPYIDQVVRDYQSKLAMSKKEELEELDEAVERS  
 LKSILNKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	67.9 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.


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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_002585</a>
<b>Locus ID:</b>	5126
<b>UniProt ID:</b>	<a href="#">P16519</a>
<b>RefSeq Size:</b>	4745
<b>Cytogenetics:</b>	20p12.1
<b>RefSeq ORF:</b>	1914
<b>Synonyms:</b>	NEC-2; NEC 2; NEC2; PC2; SPC2
<b>Summary:</b>	This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. The protein undergoes an initial autocatalytic processing event and interacts with a neuroendocrine secretory protein in the ER, exits the ER and sorts to secretory granules, where it is cleaved and catalytically activated during intracellular transport. The encoded protease is packaged into and activated in dense core secretory granules and expressed in the neuroendocrine system and brain. This gene encodes one of the seven basic amino acid-specific members which cleave their substrates at single or paired basic residues. It functions in the proteolytic activation of polypeptide hormones and neuropeptides precursors. Single nucleotide polymorphisms in this gene may increase susceptibility to myocardial infarction and type 2 diabetes. This gene may also play a role in tumor development and progression. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jan 2014]
<b>Protein Families:</b>	Druggable Genome, Protease, Secreted Protein

**Product images:**

Coomassie blue staining of purified PCSK2 protein (Cat# [TP322498]). The protein was produced from HEK293T cells transfected with PCSK2 cDNA clone (Cat# [RC222498]) using MegaTran 2.0 (Cat# [TT210002]).