

## Product datasheet for **TP310514L**

### Plakophilin 2 (PKP2) (NM\_001005242) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of Human plakophilin 2 (PKP2), transcript variant 2a, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210514 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAAPGAPAEYGYIRTVLGQQILGQLDSSSLALPSEAKLKLKAGSSGRGGQTVKSLRIQEQVQQT LARKGRS  
SVGNLHRTSSVPEYVYNLHLVENDFVGGRRSPVPKTYDMLKAGTTATYEGRWGRGTAQYSSQKSVEERS  
LRHPLRRLEISPDSSPERAHYTHSDYQYSQRSQAGHTLHHQESRRAALLVPPRYARSEIVGVS RAGTTSR  
QRHFDYHRQYQHGSVSDTVFDSIPANPALLTYPRPGTSRSMGNLLEKENYLTAGLTVGQVRPLVPLQPV  
TQNRASRSSWHQSSFHSTRTLREAGPSVAVDSSGRRRAHLTVGQAAAGGSGNLLTERSTFTDSQLGNADME  
MTLERAVSMLEADHMPPSRISAAATFIQHECFQKSEARKRVNQLRGILKLLQLLKVQNE DVQRAVCGALR  
NLVFEDNDNKLEVAELNGVPRLLQVLKQTRDLETKKQITGLLWNLSSNDKLNLMITEALLTLTENIIIP  
FSGWPEGDYPKANGLLDFDIFYNVTGCLRNMSSAGADGRKAMRRCDGLIDSLVHYVRGTIADYQPD DKAT  
ENCVCILHNLSYQLEAELPEKYSQNIYIQRNRIQTDNNSIGCFGSRSRKVKEQYQDVPMPEEKS NPKGV  
EWLWHSIVIRMYLSLIAKSVRNYTQEASLGALQNLTAGSGPMPTSAQT VVQKESGLQHTRKMLHVG DPS  
VKKTAISLLRNL SRNLSLQNEIAKETLPDLVSIIPDTPSTDLLIETTASACYTLNIIQNSYQNARDLL  
NTGGIQKIMASAGDAYASNKASKAASVLLYSLWAHTELHHAYKKAQFKKTD FVNSRTAKAYHSLKD

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	92.7 kDa
Concentration:	>0.05 µg/µL as determined by Bradford protein assay method.
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	100 mM Glycine, pH 3.5, 10% Glycerol
Storage:	Store at -80°C after receiving vials.
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_064303.2</a>



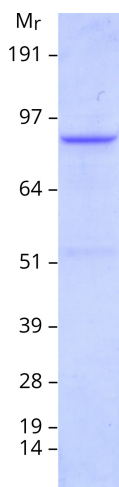
[View online »](#)

Locus ID: 5318  
UniProt ID: [Q99959](#)  
RefSeq Size: 4307  
Cytogenetics: 12p11.21  
RefSeq ORF: 2511  
Synonyms: ARVD9

**Summary:** This gene encodes a member of the arm-repeat (armadillo) and plakophilin gene families. Plakophilin proteins contain numerous armadillo repeats, localize to cell desmosomes and nuclei, and participate in linking cadherins to intermediate filaments in the cytoskeleton. This gene product may regulate the signaling activity of beta-catenin. Two alternately spliced transcripts encoding two protein isoforms have been identified. A processed pseudogene with high similarity to this locus has been mapped to chromosome 12p13. [provided by RefSeq, Jul 2008]

**Protein Pathways:** Arrhythmogenic right ventricular cardiomyopathy (ARVC)

### Product images:



Coomassie blue staining of purified PKP2 protein (Cat #[TP310514]). The protein was produced from mammalian cells transfected with PKP2 cDNA clone (Cat #[RC210514]).