

## Product datasheet for SC303237

### Periplakin (PPL) (NM\_002705) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Periplakin (PPL) (NM_002705) Human Untagged Clone
Tag:	Tag Free
Symbol:	Periplakin
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_002705 edited

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GGTGCGCGCCCGCCCGCCAGCCGCCGCCGCCGCCGACCCCGAGCGCCACCATGAACTCGC
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TCGTAACGGCAGACGCTGGCCCTCTCTACGACGACGAGTACCTCCTTGGTGTCTGCTCTCT
CCCTAGCCCTGGTGCAGGCCAAGCATTATTTATACAT
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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_002705
<b>Insert Size:</b>	5900 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM_002705.3.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_002705.3</a></u> , <u><a href="#">NP_002696.3</a></u>
<b>RefSeq Size:</b>	6256 bp
<b>RefSeq ORF:</b>	5271 bp
<b>Locus ID:</b>	5493
<b>UniProt ID:</b>	<u><a href="#">O60437</a></u>
<b>Cytogenetics:</b>	16p13.3

**Gene Summary:**

The protein encoded by this gene is a component of desmosomes and of the epidermal cornified envelope in keratinocytes. The N-terminal domain of this protein interacts with the plasma membrane and its C-terminus interacts with intermediate filaments. Through its rod domain, this protein forms complexes with envoplakin. This protein may serve as a link between the cornified envelope and desmosomes as well as intermediate filaments. AKT1/PKB, a protein kinase mediating a variety of cell growth and survival signaling processes, is reported to interact with this protein, suggesting a possible role for this protein as a localization signal in AKT1-mediated signaling. [provided by RefSeq, Jul 2008]