Product datasheet for RC208045

PPHLN1 (NM_201438) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPHLN1 (NM_201438) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPHLN1
Synonyms:	CR; HSPC206; HSPC232
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208045 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTACAGAAGAGACGAAATGTGGTCTGAGGGACGATATGAATATGAAAGAATTCCGAGAGAACGAG
CACCTCCTCGAAGTCATCCCAGTGATGAATCTGGTTATAGATGGACAAGAGACGATCATTCTGCAAGCAG
GCAACCTGAATACAGGGACATGAGAGATGGCTTTAGAAGAAAAAGTTTCTACTCTTCCCATTATGCGAGA
GAGCGGTCTCCTTATAAAAGGGACAATACTTTTTTTCAGAGAATCACCTGTTGGCCGAAAGGATTCTCCAC
ACAGCAGATCTGGTTCCAGTGTCAGTAGCAGAAGCTACTCTCCAGAAAGGAGCAAATCATACTCTTTCCA
TCAGTCTCAACATAGAAAGTCCGTGCGTCCTGGTGCCTCCTACAAACGGCAGAATGAAGGAAATCCTGAA
AGAGATAAAGAGAGGCCTGTCCAGTCTTTGAAAACATCAAGAGATACTTCACCCTCAAGTGGTTCAGCAG
TTTCTTCATCAAAGGTGTTAGACAAACCCAGTAGGCTAACTGAAAAGGAACTTGCTGAGGCTGCAAGCAA
GTGGGCTGCTGAAAAGCTAGAGAAATCAGATGAAAGTAACTTGCCTGAAATTTCTGAGTATGAGGCGGGA
TCCACAGCACCATTGTTTACTGACCAGCCAGAGGAACCTGAGTCAAACACAACACATGGGATAGAATTAT
TTGAAGATAGTCAGCTAACCACTCGCTCTAAAGCAATAGCATCAAAAACCAAAGAGATTGAACAGGTGAG
AGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:	>RC208045 protein sequence Red=Cloning site Green=Tags(s) MAYRRDEMWSEGRYEYERIPRERAPPRSHPSDESGYRWTRDDHSASRQPEYRDMRDGFRRKSFYSSHYAR ERSPYKRDNTFFRESPVGRKDSPHSRSGSSVSSRSYSPERSKSYSFHQSQHRKSVRPGASYKRQNEGNPE RDKERPVQSLKTSRDTSPSSGSAVSSSKVLDKPSRLTEKELAEAASKWAAEKLEKSDESNLPEISEYEAG STAPLFTDQPEEPESNTTHGIELFEDSQLTTRSKAIASKTKEIEQVRV TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6342_b11.zip
Restriction Sites:	SgfI-MluI
Cloning Scheme:	
ACCN:	NM_201438
ORF Size:	774 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	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).

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Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	NM_201438.2
RefSeq Size:	1338 bp
RefSeq ORF:	777 bp
Locus ID:	51535
UniProt ID:	Q8NEY8
Cytogenetics:	12q12
MW:	29.8 kDa
Gene Summary:	The protein encoded by this gene is one of the several proteins that become sequentially incorporated into the cornified cell envelope during the terminal differentiation of keratinocyte at the outer layers of epidermis. This protein interacts with periplakin, which is known as a precursor of the cornified cell envelope. The cellular localization pattern and insolubility of this protein suggest that it may play a role in epithelial differentiation and contribute to epidermal integrity and barrier formation. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

Product images:
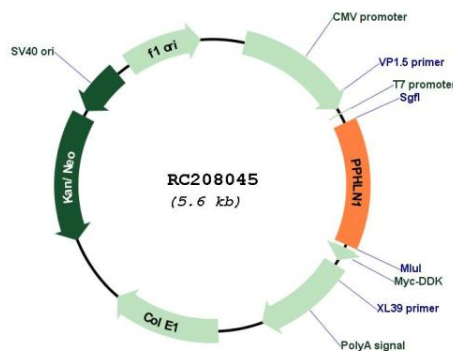
Circular map for RC208045
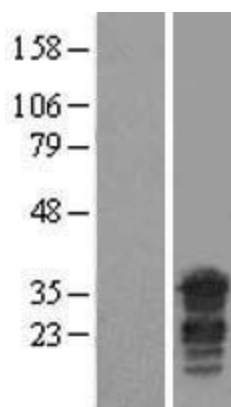
Western blot validation of overexpression lysate (Cat# [LY404420]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208045 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).
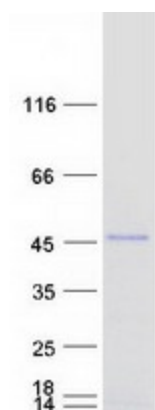
Coomassie blue staining of purified PPHLN1 protein (Cat# [TP308045]). The protein was produced from HEK293T cells transfected with PPHLN1 cDNA clone (Cat# RC208045) using MegaTran 2.0 (Cat# [TT210002]).