

Product datasheet for **RG227699**

PPHLN1 (NM_001143789) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPHLN1 (NM_001143789) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPHLN1
Synonyms:	CR; HSPC206; HSPC232
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227699 representing NM_001143789 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGTCTGAGGGACGATATGAATATGAAAGAATTCGAGAGAACGAGCACCTCCTCGAAGTCATCCCA
GTGATGAATCTGGTTATAGATGGACAAGAGACGATCATTCTGCAAGCAGGCAACCTGAATACAGGGACAT
GAGAGATGGCTTTAGAAGAAAAAGTTTCTACTCTCCATTATGCGAGAGAGCGGTCTCCTATAAAAGG
GACAATACTTTTTTCAGAGAATCACCTGTTGGCCGAAAGGATTCTCCACACAGCAGATCTGGTCCAGTG
TCAGTAGCAGAAGCTACTCTCCAGAAAGGAGCAAATCATACTCTTCCATCAGTCTCAACATAGAAATAA
AGAGAGGCCTGTCCAGTCTTTGAAAACATCAAGAGATACTTCACCCTCAAGTGGTTCAGCAGTTTCTTCA
TCAAAGGTGTTAGACAAACCCAGTAGGCTAACTGAAAAGGAACTTGTGAGGCTGCAAGCAAGTGGGCTG
CTGAAAAGCTAGAGAAATCAGATGAAAGTAACTTGCCCTGAAATTTCTGAGTATGAGGCGGGATCCACAGC
ACCATTGTTTACTGACCAGCCAGAGGAACCTGAGTCAAACACAACACATGGGATAGAATTTTGAAGAT
AGTCAGCTAACCACTCGCTCTAAAGCAATAGCATCAAAAACAAAGAGATTGAACAGGTTTACCGACAAG
ACTGTGAACTTTCCGGATGGTGGTAAAAATGCTGATTGAAAAAGATCCTTCATTAGAAAAGTCTATACA
GTTTGCATTGAGGCAGAAATTTACATGAAATAGGTGAGCGGTGTGTTGAAGAACTCAAGCATTTCATTGCA
GAGTATGATACTTCCACTCAAGATTTTGGAGAGCCTTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227699 representing NM_001143789
 Red=Cloning site Green=Tags(s)

MWSEGRYEYERIPRERAPPRSHPSDESGYRWTRDDHSASRQPEYRDMRDGFRRKSFYSSHYARERSPYKR
 DNTFFRESVPVGRKDSPHRSRSGSSVSSRSYSPEFSKSYFQHSQHRNKERPVSQSLKTSRDTSPPSSGSAVSS
 SKVLDPKPSRLTEKELAEAAASKWAAEKLEKSDENLPEISEYEAGSTAPLFTDQPEEPESNTTHGIELFED
 SQLTTRSKAIAASKTKEIEQVYRQDCETFQGMVVKMLIEKDPSELEKSIQFALRQNLHEIGERCVEELKHFIA
 EYDTSTQDFGEPF

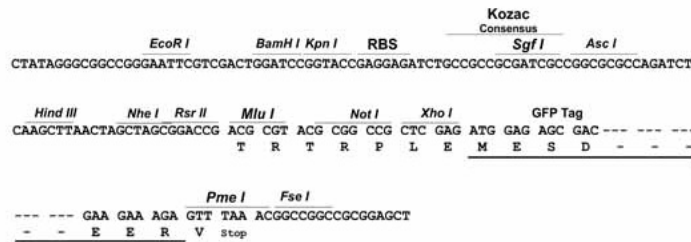
TRTRPLE - GFP Tag - V

Restriction Sites:

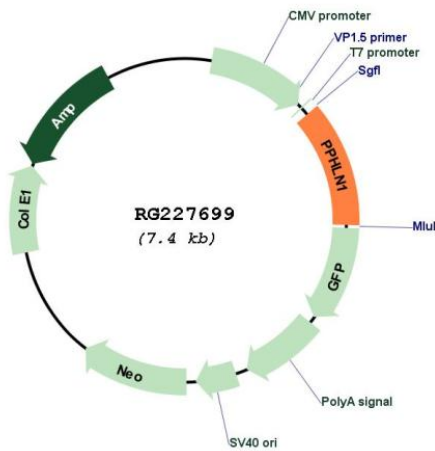
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001143789

ORF Size: 879 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).
Reconstitution Method:	<ol style="list-style-type: none">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_001143789.1 , NP_001137261.1
RefSeq Size:	1455 bp
RefSeq ORF:	882 bp
Locus ID:	51535
Cytogenetics:	12q12
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]