

Product datasheet for **RG201282**

APPD (PLEKHFI) (NM_024310) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	APPD
Synonyms:	APPD; LAPF; PHAFINI; ZFYVE15
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG201282 representing NM_024310
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGACCACTTGGCCAACACGGAGATCAACAGCCAGCGCATCGCGGCAGTGGAGAGCTGCTTCGGGG
CCTCGGGGACGCCGCTGGCGCTGCCAGGCCGAGTGCTGCTGGGCGAGGGCGTGCTGACCAAAGAGTGCCG
CAAGAAGGCCAAGCCGCGCATCTTCTCTCTTTAACGACATCCTGGTGTATGGCAGCATCGTGCTCAAC
AAGCGCAAGTACCGCAGCCAGCACATCATCCCCCTGGAGGAGGTCACTGGAGCTGTTGCCGGAGACGC
TGCAGGCCAAGAACCCTGGATGATCAAGACGGCCAAGAAATCCTTTGTGGTGTGCGCCGCTCCGCTAC
GGAGCGCCAGGAATGGATTAGCCACATCGAGGAGTGCGTGCGGCGGCAACTGAGGGCCACGGGCCGCCCG
CCCAGCACGGAGCACGCGGCACCCCTGGATCCCCGACAAGGCCACGGACATCTGCATGCGCTGCACGCAGA
CGCGCTTCTGCCCCTACGAGGCGCCACCACTGCCGCAAGTGGCGCTTCGTGGTCTGCGCTGAGTGCTC
GCGCCAGCGCTTCTGCTCCCGCGCTGTCCCCAAGCCCGTGCAGCTCTGCAGCCTCTGCTACCGCGAA
CTGGCCGCCAGCAGCGGCAGGAGGAGGCGGAGGAGCAGGGCGCGGGTCCCCAGGGCAGCCAGCCACC
TGGCCCGGCCCATCTGCGGAGCGTCCAGTGGAGATGACGATGACTCCGACGAGGACAAGGAGGGCAGCAG
GGACGGCGACTGGCCAGCAGCGTGGAGTTCTACGCCCTCGGGGTGGCTGGTCTGCCTTCCACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG201282 representing NM_024310

Red=Cloning site Green=Tags(s)

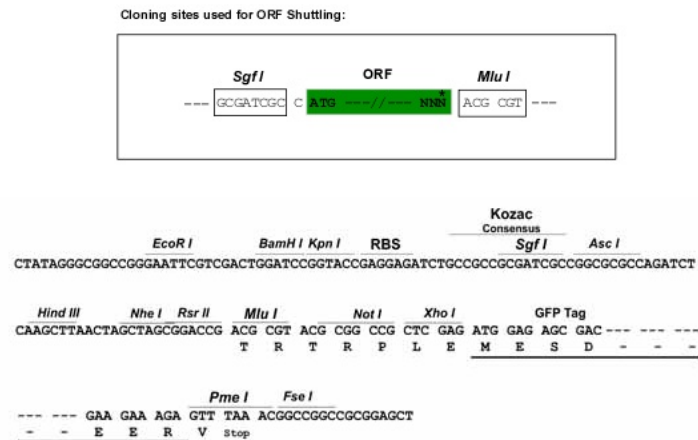
MVDHLANTEINSQRIAAVESCFGASGQPLALPGRVLLGEGVLTKECRKKAKPRIFFLFNDILVYGSIVLN
KRKYRSQHIIPLEEVTLLELLPETLQAKNRWMIKTAKKSFVSAASATERQEWISHIEECVRRQLRATGRP
PSTEHAAPWIPDKATDICTMCTQTRFSALTRRHCRKCGFVCAECSRQRFLPRLSPKPVVCSLCYRE
LAAQQRQEEAEQAGSPGQPAHLARPICGASSGDDDDSDDEKESRDGDWPSSEVFYASGVAWSAFHS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_024310

ORF Size:

837 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:

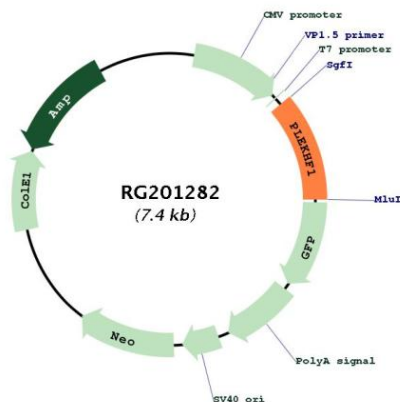
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_024310.5</u>
RefSeq Size:	2094 bp
RefSeq ORF:	840 bp
Locus ID:	79156
UniProt ID:	<u>Q96S99</u>
Cytogenetics:	19q12
Domains:	FYVE, PH
Gene Summary:	May induce apoptosis through the lysosomal-mitochondrial pathway. Translocates to the lysosome initiating the permeabilization of lysosomal membrane (LMP) and resulting in the release of CTSD and CTSL to the cytoplasm. Triggers the caspase-independent apoptosis by altering mitochondrial membrane permeabilization (MMP) resulting in the release of PDCD8. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201282