

Product datasheet for **RC220166**

PLAA (NM_001031689) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLAA (NM_001031689) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLAA
Synonyms:	DOA1; NDMSBA; PLA2P; PLAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC220166 representing NM_001031689
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGACGAGCGCGCAACCAAGTACCGGCTGAGCTGCTCGTCCGGGGCCACGAGCTGGACGTACGGGGCC
 TGGTGTGCTGCGCTATCCGCCGGGAGCCTTTGTGTCCGTGTCCGAGACCGCACCCGCCCTCTGGGC
 CCCAGACAGTCCAAACAGGAGCTTTACAGAAATGCACTGTATGAGTGGCCATTCCAATTTGTATCTTGT
 GTATGCATCATACCCTCAAGTGACATCTACCCTCATGGCCTAATTGCCACCGGTGAAATGACCACAATA
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 TCTATCATCTGAAAAATTTGGGACATTACTTAGTGTTTCATGGGACCACTGCTAAAGTCTGGCTGAAT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220166 representing NM_001031689

Red=Cloning site Green=Tags(s)

MTSGATRYRLSCSLRGHELDVRGLVCCAYPPGAFVSVSRDRTTRLWAPDSPNRSFTEMHMSGHSNFVSC
 VCIIPSSDIYPHGLIATGGNDHNICIFSLDSPMPLYILKGHKNTVCSLSSGKFGTLLSGSWDTTAKVWLN
 DKCMMTLQGHTAAVWAVKILPEQGLMLTGSADKTVKLWKAGRCERTFSGHEDCVRGLAILSETEFLSCAN
 DASIRRWQITGECLEVYYGHTNYIYSISVFPNCRDFVTTAEDRSLRIWKHGECQAQTIRLPAQSIWCCCVL
 DNGDIVVGASDGIIRVFTESEDRTASAEIKAFAKELSHATIDSKTGDLGDINAEQLPGREHLNEPGTRE
 GQTRLIRDGEKVEAYQWSVSEGRWIKIGDVVGSSGANQQTSGKVLVEGKEFDYVFSIDVNEGGPSYKLPY
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 CNEKEGAQFSSHLINLLNPKGKPANQLLALRTFCNCFVGQAGQKLMMSQRESLSHAIELKSGSNKNIHI
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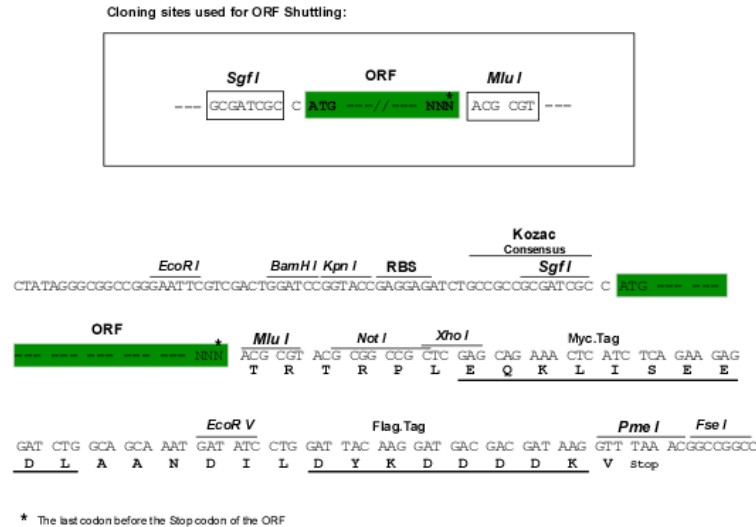
Chromatograms:

https://cdn.origene.com/chromatograms/mk8020_c02.zip

Restriction Sites:

Sgfi-MluI

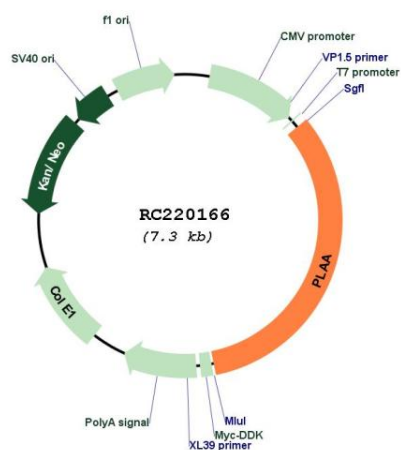
Cloning Scheme:



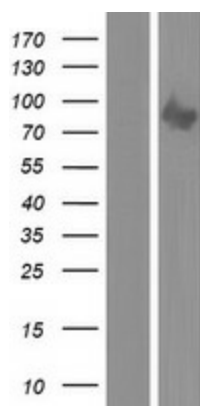
ACCN:	NM_001031689
ORF Size:	2385 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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_001031689.3</u>
RefSeq Size:	2719 bp
RefSeq ORF:	2388 bp
Locus ID:	9373
UniProt ID:	<u>Q9Y263</u>
Cytogenetics:	9p21.2
MW:	87 kDa
Gene Summary:	Plays a role in protein ubiquitination, sorting and degradation through its association with VCP (PubMed:27753622). Involved in ubiquitin-mediated membrane proteins trafficking to late endosomes in an ESCRT-dependent manner, and hence plays a role in synaptic vesicle recycling (By similarity). May play a role in macroautophagy, regulating for instance the clearance of damaged lysosomes (PubMed:27753622). Plays a role in cerebellar Purkinje cell development (By similarity). Positively regulates cytosolic and calcium-independent phospholipase A2 activities in a tumor necrosis factor alpha (TNF-alpha)- or lipopolysaccharide (LPS)-dependent manner, and hence prostaglandin E2 biosynthesis (PubMed:18291623, PubMed:28007986).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC220166



Western blot validation of overexpression lysate (Cat# [LY421901]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220166 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).