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Product datasheet for RG220166

PLAA (NM_001031689) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLAA (NM_001031689) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLAA
Synonyms:	DOA1; NDMSBA; PLA2P; PLAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG220166 representing NM_001031689
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGAGCGGCGCAACCAGGTACCGGCTGAGCTGCTCGCTCCGGGGCCACGAGCTGGACGTACGGGGCC
TGGTGTGCTGCGCCTATCCGCCGGGAGCCTTTGTGTCCGTGTCCCGAGACCGCACCACCCGCCTCTGGGC
CCCAGACAGTCCAAACAGGAGCTTTACAGAAATGCACTGTATGAGTGGCCATTCCAATTTTGTATCTTGT
GTATGCATCATACCCTCAAGTGACATCTACCCTCATGGCCTAATTGCCACCGGTGGAAATGACCACAATA
TATGCATTTTCTCACTGGACAGTCCAATGCCACTTTATATTCTAAAAGGCCACAAAAATACTGTTTGTAG
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TTTATAGCATATCCGTTTTTCCAAATTGTAGAGACTTTGTGACAACAGCAGAGGACAGATCTCTGAGAAT
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AATGTTTGTCACTAATTAGCACAATCTTGGAAGTAGTACAAGACCTAGAAGCCACTTTTAGACTTCTTGT
GGCTCTTGGAACACTTATCAGTGATGATTCAAATGCTGTACAATTAGCCAAGTCTTTAGGTGTTGATTCT
CAAATAAAAAAGTATTCCTCAGTATCAGAACCAGCTAAAGTAAGTGAATGCTGTAGATTTATCCTAAATT
TGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

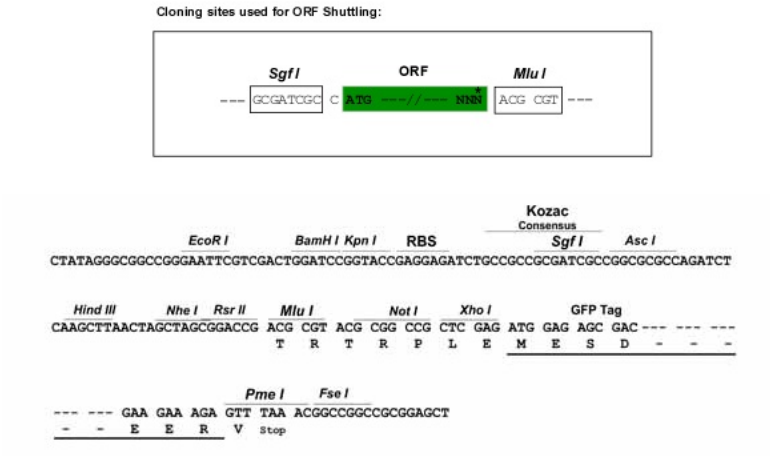
>RG220166 representing NM_001031689
Red=Cloning site Green=Tags(s)

MTSGATRYRLSCSLRGHELDVRGLVCCAYPPGAFVSVSRDRTTRLWAPDSPNRSFTEMHCMSGHSNFVSC
VCIIPSSDIYPHGLIATGGNDHNICIFSLDSPMPLYILKGHKNTVCSLSSGKFGTLLSGSWDTTAKVWLN
DKCMMTLQGHTAAVWAVKILPEQGLMLTGSADKTVKLWKAGRCERTFSGHEDCVRGLAILSETEFLSCAN
DASIRRWQITGECLEVYYGHTNYIYSISVFPNCRDFVTTAEDRSLRIWKHGECAQTIRLPAQSIWCCCVL
DNGDIVVGASDGIIRVFTESEDRTASAEEIKAFEKELSHATIDSKTGDLGDINAEQLPGREHLNEPGTRE
GQTRLIRDGEKVEAYQWSVSEGRWIKIGDVVGSSGANQQTSGKVLYEGKEFDYVFSIDVNEGGPSYKLPY
NTSDDPWLTAYNFLQKNDLNPMFLDQVAKFIIDNTKGQMLGLGNPSFSDPFTGGGRYVPGSSGSSNTLPT
ADPFTGAGRYVPGSASMGTTMAGVDPFTGNSAYRSAASKTMNIYFPKKEAVTFDQANPTQILGKLKELNG
TAPEEKKLTEDDLILLEKILSLICNSSSEKPTVQQLQILWKAINCPEDIVFPALDILRLSIKHPSVNENF
CNEKEGAQFSSHLINLLNPKGKPANQLLALRTFCNCFVGQAGQKLMMSQRESLMSHAIELKSGSNKNIHI
ALATLALNYSVCFHKDHNIEGKAQCLSLISTILEVVQDLEATFRLLVALGTLISDDSNAVQLAKSLGVDS
QIKKYSSVSEPAKVSECCRFILNLL

TRTRPLE – GFP Tag – V

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.

RefSeq: NM_001031689.3

RefSeq Size: 2719 bp

RefSeq ORF: 2388 bp

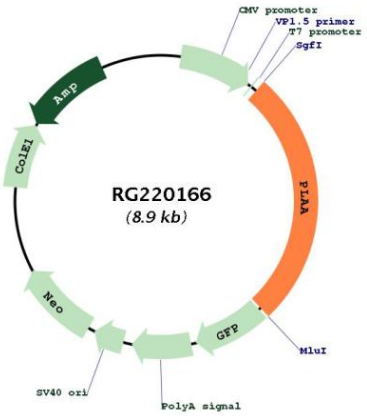
Locus ID: 9373

UniProt ID: Q9Y263

Cytogenetics: 9p21.2

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 RG220166