

Product datasheet for **RC205234**

plasticity related gene 3 (PLPPR1) (NM_017753) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	plasticity related gene 3 (PLPPR1) (NM_017753) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	plasticity related gene 3
Synonyms:	LPPR1; PRG-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205234 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGTAGGAAACAACACTCAACGAAGTTATCCATCATCCCCTGTTTTATTTGTTGAGCTTGTCATCATGGCTGGGACAGTGTCTGCCTACTACTTCGAATGCACTGACACTTTTCAGGTGCATATCCAAGGATTTCTTGTGTCAGGACGGAGACTTAATGAAGCCTTACCCAGGGACAGAGGAAGAAAGCTTCATCACCCCTCTGGTGTCTATTGTGTGCTGGCTGCCACCCCAACTGCTATTATTTTTATTGGTGAGATATCCATGTATTTCATAAAATCAACAAGAGAATCCCTGATTGCTCAGGAGAAAACAATTCTGACCGGAGAATGCTGTTACCTGAACCCCTTACTTCGAAGGATCATAAGATTACAGGGGTGTTGCAATTTGGACTTTTTGCTACTGACATTTTGTAACGCGCCGACAAGTGGTCACTGGGCACCTAACGCCATATTCCTGACTGTGTGCAAGCCAACTACACCAGTGCAGACTGCCAAGCGCACACCAGTTTATAAACAATGGGAACATTTGTACTGGGACCTGGAAGTGATAGAAAAGGCTCGGAGATCCTTTCCCTCCAACACGCTGTCTGAGCATTACTCCGCCTTATGCCACGATGTATATTACAAGCACAATCAAGACGAAGAGCAGTCGACTGGCCAAGCCGGTGTGTGCCTCGAACTCTCTGCACAGCCTTCTGACAGGCCTCAACCGGTCTCTGAGTATCGGAACCACTGCTCGGACGTGATTGCTGGTTTCATCCTGGGCACTGCAGTGGCCCTGTTTCTGGGAATGTGTGTGGTTCATAACTTTAAAGAACGCAAGGATCTCCTTCCAAACCAAGCCTGAGGATCCCCGTGGAGTACCCCTAATGGCTTTCCCAAGGATAGAAAGCCCTCTGGAAACCTTAAGTGCACAGAATCACTCTGCGTCCATGACCGAAGTTACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC205234 protein sequence
 Red=Cloning site Green=Tags(s)

MAVGNNTQRSYSIIPCFIFVELVIMAGTVLLAYFECTDTFQVHIQGFCCQDGLMKPYPGTEESFITP
 LVLYCVLAATPTAIIIFIGEISMYFIKSTRESLIAQEKILTGECCYLNPLLRRIIRFTGVFAFGLFATDI
 FVNAGQVVTGHLTPYFLTVCKPNYTSADCQAHHQFINNGNICTGDLEVIEKARRSFPSKHAALSIYSALY
 ATMYITSTIKTKSSRLAKPVLCLGTLCTAFLTGLNRVSEYRNHCSVDVIAGFILGTAVALFLGMCVVHNFK
 GTQGSPSKPKPEDPRGVPLMAFPRIESPLETLSAQNHSASMEVT

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

Chromatograms: https://cdn.origene.com/chromatograms/mk6537_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_017753

ORF Size: 975 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_017753.3](#)

RefSeq Size: 2328 bp

RefSeq ORF: 978 bp

Locus ID: 54886

UniProt ID: [Q8TBJ4](#)

Cytogenetics: 9q31.1

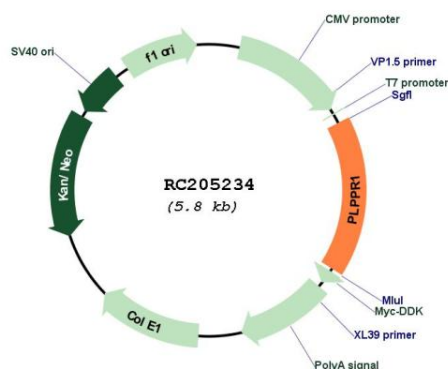
Domains: acidPPc

Protein Families: Phosphatase, Transmembrane

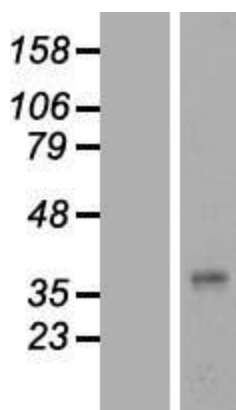
MW: 35.8 kDa

Gene Summary: This gene encodes a member of the plasticity-related gene (PRG) family. Members of the PRG family mediate lipid phosphate phosphatase activity in neurons and are known to be involved in neuronal plasticity. The protein encoded by this gene does not perform its function through enzymatic phospholipid degradation. This gene is strongly expressed in brain. It shows dynamic expression regulation during brain development and neuronal excitation. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC205234



Western blot validation of overexpression lysate (Cat# [LY404081]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC222205] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).