

Product datasheet for **RG222205**

plasticity related gene 3 (PLPPR1) (NM_207299) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	plasticity related gene 3 (PLPPR1) (NM_207299) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLPPR1
Synonyms:	LPPR1; PRG-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222205 representing NM_207299 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGTAGGAAACAACACTCAACGAAGTTATCCATCATCCCGTGTTTTATTTGTTGAGCTTGTCATCATGGCTGGGACAGTGTGCTTGCTACTACTTCGAATGCACTGACACTTTTCAGGTGCATATCCAAGGATTTCTTGTGTCAGGACGGAGACTTAATGAAGCCTTACCCAGGGACAGAGGAAAGAAAGCTTCATCACCCCTCTGGTGTCTATTGTGTGCTGGCTGCCACCCCAACTGCTATTATTTTTATTGGTGAGATATCCATGTATTTCATAAAATCAACAAGAGAATCCCTGATTGCTCAGGAGAAAACAATTCTGACCGGAGAATGCTGTTACCTGAACCCCTTACTTCGAAGGATCATAAGATTACAGGGGTGTTGCAATTTGGACTTTTTGCTACTGACATTTTGTAACGCGCCGACAAGTGGTCACTGGGCACTTAACGCCATATTCCTGACTGTGTGCAAGCCAACTACACCAGTGCAGACTGCCAAGCGCACACCAGTTTATAACAATGGGAACATTTGTACTGGGGACCTGGAAGTGATAGAAAAGGCTCGGAGATCCTTTCCCTCCAACACGCTGTCTGAGCATTACTCCGCCTTATGCCACGATGTATATTACAAGCACAATCAAGACGAAGAGCAGTCGACTGGCCAAGCCGGTGTGTGCCTCGAACTCTCTGCACAGCCTTCTGACAGGCCTCAACCGGTCTCTGAGTATCGGAACCACTGCTCGGACGTGATTGCTGGTTTCATCCTGGGCACTGCAGTGGCCCTGTTTCTGGGAATGTGTGTGGTTCATAACTTTAAAGGAACGCAAGGATCTCCTTCCAAACCAAGCCTGAGGATCCCCGTGGAGTACCCCTAATGGCTTTCCCAAGGATAGAAAGCCCTCTGGAACCTTAAGTGCACAGAATCACTCTGCGTCCATGACCGAAGTTACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222205 representing NM_207299
 Red=Cloning site Green=Tags(s)

MAVGNNTQRSYSIIPCFIFVELVIMAGTVLLAYFECTDTFQVHIQGGFCQDGLMKPYPGTEESFITP
 LVLYCVLAATPTAIIIFIGEISMYFIKSTRESLIAQEKILTGECCYLNPLLRRIIRFTGVFAFGLFATDI
 FVNAGQVVTGHLTPYFLTVCKPNYTSADCQAHQFINNGNICTGDLEVIEKARRSFPSKHAALSIYSALY
 ATMYITSTIKTKSSRLAKPVLCLGTLCTAFLTGLNRVSEYRNHCSVDIAGFILGTAVALFLGMCVVHNFK
 GTQGSPSKPKPEDPRGVPLMAFPRIESPLETLSAQNHSASMT EVT

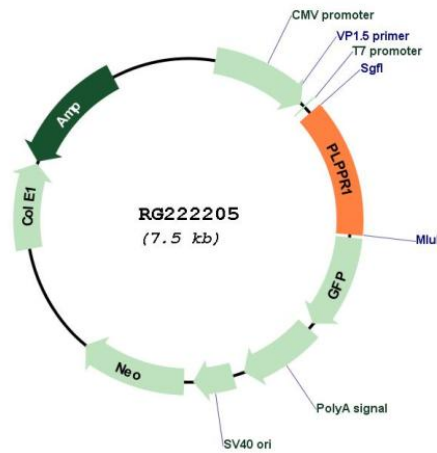
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_207299

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:	<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_207299.2
RefSeq Size:	2461 bp
RefSeq ORF:	978 bp
Locus ID:	54886
UniProt ID:	Q8TBJ4
Cytogenetics:	9q31.1
Protein Families:	Phosphatase, Transmembrane
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]