

Product datasheet for **RG223927**

P2Y9 (LPAR4) (NM_005296) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	P2Y9 (LPAR4) (NM_005296) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	P2Y9
Synonyms:	GPR23; LPA4; P2RY9; P2Y5-LIKE; P2Y9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223927 representing NM_005296 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGACAGAAGATTCATTGACTTCCAATCCAAGATCAAATCAAGCCTCAGACCCAGGTTGGGCA
ATGCTACTGCCAATAATACTTGCATTGTTGATGATTCTTCAAGTATAATCTCAATGGTGTCTACAG
TGTTGATTCATCTTGGGTCTGATAACCAACAGTGTCTCTCTGTTTGTCTCTGTTCCGCATGAAAATG
AGAAGTGAGACTGCTATTTTATACCAATCTAGCTGTCTCTGATTTGCTTTTGTCTGTACTACTCTT
TAAAAATATTTACAACCTCAACCGCCACTGGCCTTTTGGTGACACCCTCTGCAAGATCTCTGGAAGTGC
ATTCCTTACCAACATCTATGGGAGCATGCTCTTCTCACCTGTATTAGTGTGGATCGTTTCTGGCCATT
GTCTATCCTTTTCGATCTCGTACTATTAGGACTAGGAGGAATTCTGCCATTGTGTGTGCTGGTGTCTGGA
TCCTAGTCCTCAGTGGCGGTATTTACAGCCTCTTGTCTTCCACCACTAATGTCAACAATGCAACCACCAC
CTGCTTTGAAGGCTTCTCCAAACGTGTCTGGAAGACTATTTATCCAAGATCACAATATTTATTGAAGTT
GTTGGGTTTATCATTCTCTAATATTGAATGTCTCTTGTCTTCTGTGGTGTGAGAAGTCTTCCGAAGC
CTGCTACTCTGTCTCAAATGGGACCAATAAGAAAAAGTACTGAAAATGATCACAGTACATATGGCAGT
CTTTGTGGTATGCTTTGTACCTACAACCTGTCTCTCTTGTATGCCCTGGTGGCTCCCAAGCTATT
ACTAATTGCTTTTGGAAAGATTTGCAAAGATCATGTACCAATCACCTGTGCTTGTGCAACTCTGAAGT
GTTGTTTTGACCCTTTCATCTATTACTTACCCTTGAATCCTTTTTCAGAAGTCTTCTACATCAATGCCCA
CATCAGAATGGAGTCCCTGTTTAAAGACTGAAACACCTTTGACCACAAAGCCTTCCCTTCCAGCTATTCAA
GAGGAAGTGAGTGATCAAACAACAATAATGGTGGTGAATTAATGCTAGAATCCACCTTT

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223927 representing NM_005296
 Red=Cloning site Green=Tags(s)

MGDRRFIDFQFQDSNSSLRPRLGNATANNTCIVDDSFKYNLNGAVYSVVFILGLITNSVSLFVFCFRMKM
 RSETAIFITNLAVSDLLFVCTLPFKIFYNFNHRHWPFGDTLCKISGTAFLTNIYGSMLFLTCISVDRFLAI
 VYPFRSRTIRTRNSAIVCAGWILVLSGGISASLFFSTTNVNNATTTCEFGFSKRVRWKTLYLKITIFIEV
 VGFIIPLILNVSCSSVLRTRLRKPATLSQIGTNKKVVKMITVHMAVFVVCVFPYNSVLFYALVRSQAI
 TNCFLERFAKIMYPITLCLATLNCCDFPIYYFTLESFQKSFYINAHIRMESLFKTETPLTTKPSLPAIQ
 EEVSDQTTNNGGELMLESTF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005296

ORF Size: 1110 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_005296.3](#)

RefSeq Size: 2299 bp

RefSeq ORF: 1113 bp

Locus ID: 2846

UniProt ID: [Q99677](#)

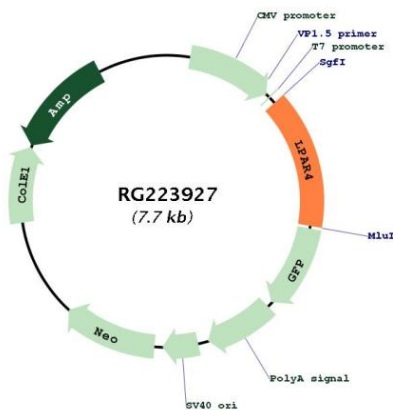
Cytogenetics: Xq21.1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: This gene encodes a member of the lysophosphatidic acid receptor family. It may also be related to the P2Y receptors, a family of receptors that bind purine and pyrimidine nucleotides and are coupled to G proteins. The encoded protein may play a role in monocytic differentiation. [provided by RefSeq, Feb 2009]

Product images:



Circular map for RG223927