

Product datasheet for **RG215286**

Lipin 3 (LPIN3) (NM_022896) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lipin 3 (LPIN3) (NM_022896) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lipin 3
Synonyms:	dj620E11.2; LIPN3L; SMP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG215286 representing NM_022896
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACACTGCTGGGGCAGCTGGCGGAGACGGTGTGGGACGGTGAAGGAGCTGTACCGGGCCTGAACC
 CAGCCACACTGAGCGGCGGCATTGACGTGCTGGTGGTGAAGCAGGTGGACGGCTCGTTCCGGTGCTCACC
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 CCACTGCCTGCTGTGGACCTTGATACCTGGAC

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG215286 representing NM_022896
 Red=Cloning site Green=Tags(s)

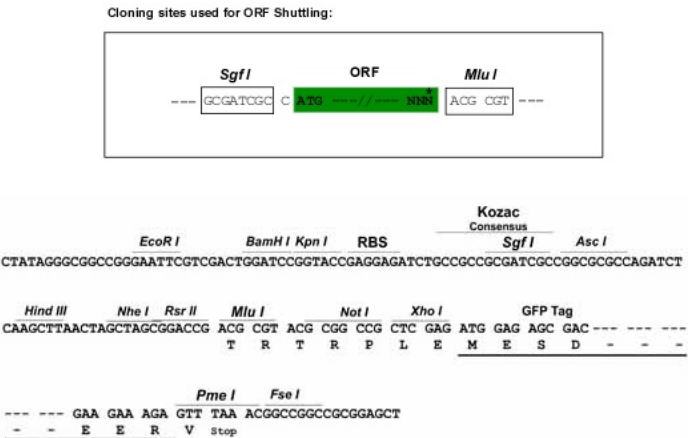
MNYVVGQLAETVFGTVKELYRGLNPATLSGGIDVLVVKQVDGSGFRCSPPFHVRFGKLGVLRSREKVVDIELN
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 GYLQWVSEGGCSLPKGPILLSPSSLFSALHREVIEKKPEVFKVACLSDIQQFLPHGQPFYAAFGNRPND
 VFAYRQVGLPESRIFTVNPRGELIQELIKNHKSTYERLGEVVELLFPPVARGPSTDLANPEYSNFCYWRE
 PLPAVDLDTLD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN:	NM_022896
ORF Size:	2553 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: [NM_022896.3](#)

RefSeq Size: 4464 bp

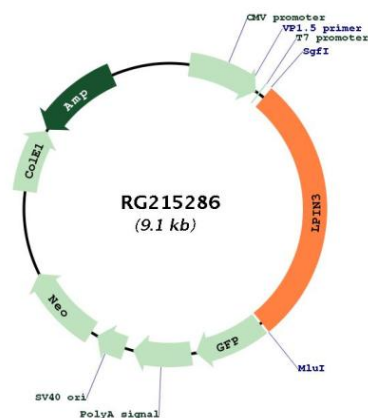
RefSeq ORF: 2556 bp

Locus ID: 64900

Cytogenetics: 20q12

Gene Summary: The protein encoded by this gene is a member of the lipin family of proteins, and all family members share strong homology in their C-terminal region. This protein is thought to form hetero-oligomers with other lipin family members, while one family member, lipin 1, can also form homo-oligomers. This protein contains conserved motifs for phosphatidate phosphatase 1 (PAP1) activity as well as a domain that interacts with a transcriptional co-activator. Lipin complexes act in the cytoplasm to catalyze the dephosphorylation of phosphatidic acid to produce diacylglycerol, which is the precursor of both triglycerides and phospholipids. Lipin complexes are also thought to regulate gene expression as transcriptional co-activators in the nucleus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]

Product images:



Circular map for RG215286