

Product datasheet for **RC233503**

LCN1 (NM_001252618) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LCN1 (NM_001252618) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: LCN1
Synonyms: PMFA; TLC; TP; VEGP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC233503 representing NM_001252618
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCCCTGCTCCTGGCCGTCAGCCTTGGCCTCATTGCTGCCCTGCAGGCCACCACCTCCTGGCCT
CAGACGAGGAGATTCAGGATGTGTGAGGACGTGGTATCTGAAGGCCATGACGGTGGACAGGGAGTTCCC
TGAGATGAATCTGGAATCGGTGACACCCATGACCCTCACGACCCTGGAAGGGGGCAACCTGGAAGCCAAG
GTCACCATGCTGATAAGTGGCCGGTGCCAGGAGGTGAAGGCCGTCCTGGAGAAAACCTGACGAGCCGGGAA
AATACACGGCCGACGGGGCAAGCACGTGGCATACATCATCAGGTCGCACGTGAAGGACCACTACATCTT
TACTGTGAGGGCGAGCTGCACGGGAAGCCGGTCCGAGGGGTGAAGCTCGTGGAGACCCCAAGAACAACC
TGAAGCCTTGGAGGACTTTGAGAAAGCCGAGGAGCCCGGACTCAGCACGGAGAGCATCCTCATCCC
CAGGCAGAGCGAAACCTGCTCTCCAGGGAGCGATTAGGGGCAGGGGACACCTTGGCTCCTCAGACGCCCA
AGGACGGCACCATCCAGCACCTCCGTATTACAGGGACATGGAAAAAGCTCCCCACCCCTGCAGAACGC
GGCTGGCTGCACCCCTTCTACCACCCCGCCTTCCCCTGCCCTGCGCCCTCTCCTGGTTCTCCA

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233503 representing NM_001252618
 Red=Cloning site Green=Tags(s)

MKPLLLAVSLGLIAALQAHHLLASDEEIQDVSQWYWKAMTVDFPEMNLESVTPMTLTTLEGGNLEAK
 VTMLISGRQCQEVKAVLEKTDDEPGKYTADGGKHVAYIIRSHVKDHYIFYCEGELHGKPVRGVKLVEPTRTT
 WKPWRTLRKPQEPADSARRASSSPGRAKPALQGAIRGRGHLGSSAAQGRHHPAPPSTGTWKKLPTPAER
 GWLHPFLPPPAPFLPCAPSPGSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001252618

ORF Size: 699 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_001252618.2](#)

RefSeq Size: 785 bp

RefSeq ORF: 702 bp

Locus ID: 3933

UniProt ID: [P31025](#)

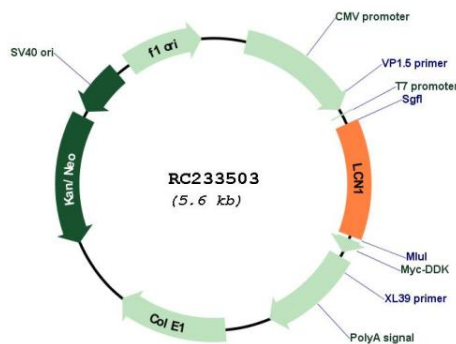
Cytogenetics: 9q34.3

Protein Families: Secreted Protein

MW: 25.9 kDa

Gene Summary: This gene encodes a member of the lipocalin family of small secretory proteins. Lipocalins are extracellular transport proteins that bind to a variety of hydrophobic ligands. The encoded protein is the primary lipid binding protein in tears and is overproduced in response to multiple stimuli including infection and stress. The encoded protein may be a marker for chromosome aneuploidy as well as an autoantigen in Sjogren's syndrome. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and two pseudogenes of this gene are also located on the long arm of chromosome 9. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RC233503