

Product datasheet for **RG216195**

LCN12 (NM_178536) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LCN12 (NM_178536) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LCN12
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216195 representing NM_178536
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGAGGCTGCTGTGTGGCCTGTGGCTGTGGCTCTCCTTGCTGAAAGTCTGCAGGCCAGACCCCAACCC
 CCCTGCCACTCCC GCCCCGATGCAGAGCTTCCAAGGAAACAGTTCAGGGGGAATGGTTCGTCTGGG
 CCTGGCGGGCAACAGCTTCAGGCCGAGCACAGGGCGTCTGAACGCTTTCACCGCAACTTTTGAGCTA
 AGTGATGATGGCCGCTTTGAGGTGTGGAATGCGATGACTCGAGGCCAGCACTGTGACACATGGTCTTATG
 TGCTGATACCGGCAGCCAGCCTGGGCAGTTCCTGTGGACCACGGTGTGGAGCCCGGGGCGGACAGAGA
 GGAGACCCGGGTGGTGGACAGCGACTACACCCAGTTCGCCCTGATGCTGTCCCGCAGACACACGAGCAGG
 CTGGCCGTCCTCAGGATCAGCCTGCTGGCAGGAGCTGGTTGCTGCCCTCCCGGACGCTGGACCAGTTCA
 TCTGCCTGGGCAGAGCTCAGGCCCTCTCGGATGACAACATCGTCTCCAGATGTGACTGGCTGGTCACC
 CCAGGCCAGCGTCTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216195 representing NM_178536
Red=Cloning site Green=Tags(s)

MRLLCGLWLWLSLLKVLQAQTPTPLPLPPMQSFQGNQFQGEWFLGLAGNSFRPEHRALLNAFTATFEL
 SDDGRFEVWAMTRGQHCDTWSYVLI PAAQPGQFTVDHGVEPGADRETRVVDSDYTQFALMLSRRTSR
 LAVLRISLLGRSWLLPPGTLDQFICLGRAQGLSDDNIVFPDVTGWSPQASVC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_178536

ORF Size: 576 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_178536.4](#)

RefSeq Size: 694 bp

RefSeq ORF: 579 bp

Locus ID: 286256

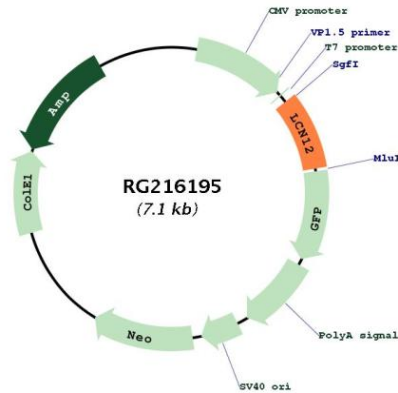
UniProt ID: [Q6JVE5](#)

Cytogenetics: 9q34.3

Protein Families: Secreted Protein

Gene Summary: Members of the lipocalin family, such as LCN12, have a common structure consisting of an 8-stranded antiparallel beta-barrel that forms a cup-shaped ligand-binding pocket or calyx. Lipocalins generally bind small hydrophobic ligands and transport them to specific cells (Suzuki et al., 2004 [PubMed 15363845]).[supplied by OMIM, Aug 2009]

Product images:



Circular map for RG216195