

Product datasheet for **RG209984**

LEAP2 (NM_052971) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LEAP2 (NM_052971) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LEAP2
Synonyms: LEAP-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209984 representing NM_052971
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGGCACCTCAAACCTTGTGCAGTCCTCATGATCTTCCTGTTGCTGTTGGCCAGATAGATGGCTCCC
 CAATACCAGAAGTGAGTTCGGCAAAGAGAAGGCCACGGAGAATGACCCCATTTTGGAGAGGGTTCCCT
 CAGGCCTATTGGAGCCTCTGCCGGATGATTCTGAGTGATCACAAGGCTATGCAGAAAAGACGCTGT
 TCCTTAAGTGTGGCCAGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209984 representing NM_052971
 Red=Cloning site Green=Tags(s)
 MWHLKLCVLMIFLLLLGQIDGSPPIPEVSSAKRRPRRMTPFWRGVSRLRPIGASCRDDSECITRLCRKRRR
 SLSVAQE

TRTRPLE - GFP Tag - V

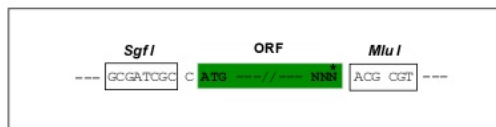
Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoR I BamH I Kpn I RBS Kozac Consensus Sgf I Asc I
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

Hind III Nhe I Rsr II Mlu I Not I Xho I GFP Tag
 CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -

 Pme I Fse I
 --- --- GAA GAA AGA GTT TAA ACGGCCGGCCCGGAGCT
 - - - E E R V Stop

ACCN: NM_052971

ORF Size: 231 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:

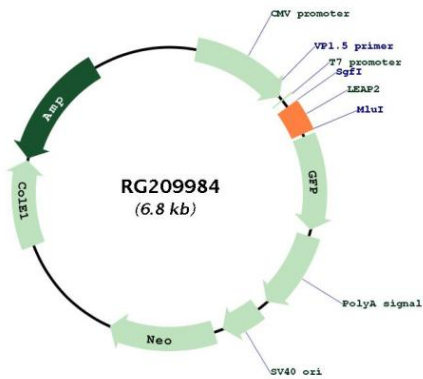
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_052971.3](#)

RefSeq Size: 707 bp

RefSeq ORF: 234 bp
Locus ID: 116842
UniProt ID: [Q969E1](#)
Cytogenetics: 5q31.1
Protein Families: Secreted Protein
Gene Summary: This gene encodes a cysteine-rich cationic antimicrobial peptide that is expressed predominantly in the liver. The mature peptide has activity against gram-positive bacteria and yeasts. [provided by RefSeq, Sep 2014]

Product images:



Circular map for RG209984