

Product datasheet for **RG220589**

ALR (GFER) (NM_005262) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ALR (GFER) (NM_005262) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ALR
Synonyms: ALR; ERV1; HERV1; HPO; HPO1; HPO2; HSS; MMCHD; MPMCD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220589 representing NM_005262
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCGCCCGGCGAGCGGGCCGCTTCCACGGCGGGAACCTCTTCTCTGCGGGGGCGCGCGCT
 CCGAGATGATGGACGACCTGGCGACCGACGCGGGGCCGGGGCGGGGCGGAGAGACGCGGCCCTC
 GGCTCGACGCCAGCCAGGCGCCGACCTCCGATTCTCTGTGCGCGAGGACGCTCCCGAGGCGGCCG
 TGCCGGGCTGCGTCGACTTCAAGACGTGGATGCGGACGACGAGAAGCGGGACCAAGTTTAGGGAGG
 ACTGCCCGCCGGATCGCGAGGAAGTGGCCGCCACAGCTGGGCTGTCTCCACACCCTGGCCGCTACTA
 CCCCAGCTGCCACCCAGAACAGCAGCAAGACATGGCCAGTTCATACATTTATTTTCTAAGTTTAC
 CCCTGTGAGGAGTGTGCTGAAGACCTAAGAAAAAGGCTGTGCAGGAACCCAGACACCCGACCCGGG
 CATGCTTACACAGTGGCTGTGCCACCTGCACAATGAAGTGAACCGCAAGCTGGCAAGCTGACTTCGA
 CTGCTCAAAGTGGATGAGCGCTGGCGGACGGCTGGAAGGATGGCTCCTGTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220589 representing NM_005262
 Red=Cloning site Green=Tags(s)

MAAPGERGRFHGGLFFLPGGARSEMDDLATDARGRGARRDAAASASTPAQAPTS DSPVAEDASRRRP
 CRACVDFKTWMRTQQKRDTKFREDCPPDREELGRHSWAVLHTLAAYYPDLPTPEQQQDMAQFIHLFSKFY
 PCEECAEDLRKRLCRNHPDTRTRACFTQWLCHLHNEVNRKLGKPDFDCSKVDERWRDGGWKGSD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_005262

ORF Size: 615 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

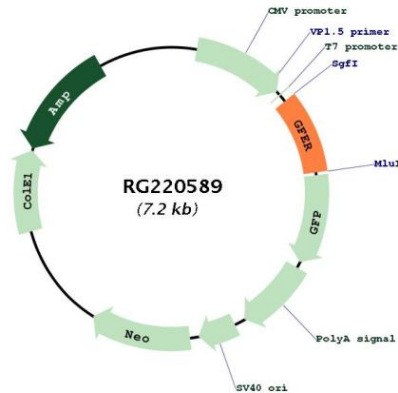
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_005262.3](#)

RefSeq Size: 2447 bp
RefSeq ORF: 618 bp
Locus ID: 2671
UniProt ID: [P55789](#)
Cytogenetics: 16p13.3

Gene Summary: The hepatotropic factor designated augments of liver regeneration (ALR) is thought to be one of the factors responsible for the extraordinary regenerative capacity of mammalian liver. It has also been called hepatic regenerative stimulation substance (HSS). The gene resides on chromosome 16 in the interval containing the locus for polycystic kidney disease (PKD1). The putative gene product is 42% similar to the scERV1 protein of yeast. The yeast scERV1 gene had been found to be essential for oxidative phosphorylation, the maintenance of mitochondrial genomes, and the cell division cycle. The human gene is both the structural and functional homolog of the yeast scERV1 gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG220589