

Product datasheet for RC210120L2

FGF10 (NM_004465) Human Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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| Product Type: | Expression Plasmids | | | | | |
|------------------------------|--|-------------|---------------------------|---------------|--------------------|------------------|
| Product Name: | FGF10 (NM_004465) Human Tagged Lenti ORF Clone | | | | | |
| Tag: | mGFP | | | | | |
| Symbol: | FGF10 | | | | | |
| Mammalian Cell Selection: | None | | | | | |
| Vector: | pLenti-C-mGFP (PS100071) | | | | | |
| E. coli Selection: | Chloramphenicol (34 ug/mL) | | | | | |
| ORF Nucleotide Sequence: | The ORF insert | c of th | is clone | is exact | tly the sar | ne as(RC210120). |
| Restriction Sites: | Sgfl-Mlul | | | | | |
| Cloning Scheme: | | Cloning sit | es used for ORF Sh | - | | |
| | | [| Sgf I GCG ATC GC C ATG | ORF // NNŇ | Mlu I ACG CGT | |
| | | | | | Kozak Consensus | |
| | | EcoR I | BamH I | RBS | Sgfl | ORF |

 $\begin{array}{c} \text{CTATAGGGCGGCCGGGAATTCGTCGATCGATCGGATCCGGTACCGGAGATCGCCGCGGGCGCGCGGATCGC C ATG \cdots \cdots \cdots \\ \hline Mlu l & Not l & Xho l & \text{mGFP Tag} \\ \hline \textbf{MGFP Tag} & \textbf{MGFP Tag} \\ \hline \textbf{MGFP Tag tag a transformation tag a$

* The last codon before the Stop codon of the ORF.

ACCN: ORF Size: NM_004465 624 bp

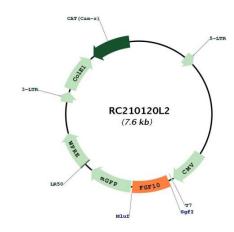


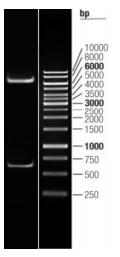
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| GRIGENE FGF10 | (NM_004465) Human Tagged Lenti ORF Clone – RC210120L2 |
|------------------------|---|
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual 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. <u>More info</u> |
| 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: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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: | <u>NM 004465.1</u> |
| RefSeq Size: | 627 bp |
| RefSeq ORF: | 627 bp |
| Locus ID: | 2255 |
| UniProt ID: | <u>015520</u> |
| Cytogenetics: | 5p12 |
| Domains: | FGF |
| Protein Families: | Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Secreted Protein, Transcription Factors, Transmembrane |
| Protein Pathways: | MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton |
| MW: | 23.44 kDa |
| Gene Summary: | The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein exhibits mitogenic activity for keratinizing epidermal cells, but essentially no activity for fibroblasts, which is similar to the biological activity of FGF7. Studies of the mouse homolog of suggested that this gene is required for embryonic epidermal morphogenesis including brain development, lung morphogenesis, and initiation of lim bud formation. This gene is also implicated to be a primary factor in the process of wound healing. [provided by RefSeq, Jul 2008] |

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Product images:





Circular map for RC210120L2

Double digestion of RC210120L2 using Sgfl and Mlul

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