

## Product datasheet for **RG215757**

### FGF22 (NM\_020637) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FGF22 (NM\_020637) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** FGF22  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG215757 representing NM\_020637  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGCCCGCCTGTGGCTGGCCTGGCTGCTGCTGGCGCGGGCGCCGACGCCGCGGGAACCC  
CGAGCGCGTCGCGGGGACCGCGCAGCTACCCGCACCTGGAGGGCGACGTGCGCTGGCGCGCCTCTTCTC  
CTCCACTACTTCTTCTGCGCGTGGATCCCGCGGCCGCGTGCAGGGCACCCGCTGGCGCCACGGCCAG  
GACAGCATCCTGGAGATCCGCTCTGTACACGTGGCGCTCGTGGTCATCAAAGCAGTGTCTCAGGCTTCT  
ACGTGGCCATGAACCGCCGGGGCCGCTCTACGGTTCGCGACTACACCGTGGACTGCAGTTCCGGGA  
GCGCATCGAAGAGAACGGCCACAACACCTACGCCTCACAGCGCTGGCGCCCGCGCCAGCCCATGTTT  
CTGGCGCTGGACAGGAGGGGGGGCCCGCCAGGCGCCGACGCGCGGTACACCTGTCCGCCACT  
TCCTGCCCGTCTGGTCTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

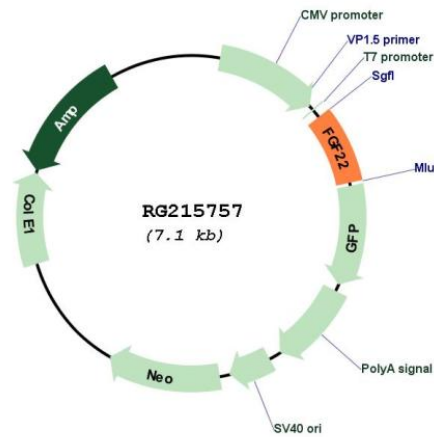
**Protein Sequence:** >RG215757 representing NM\_020637  
Red=Cloning site Green=Tags(s)  
MRRRLWGLAWLLARAPDAAGTPSASRGPRSYPHLEGDVRRRLFSSTHFFLRVDPGGRVQGRWRHGQ  
DSILEIRSVHVGVVVIAKAVSSGFYVAMNRRRLYGSRLYVDCRFREIEENGHNTYASQRWRRRQPMF  
LALDRRGGPRPGGRTRRYHLSAHFLPVLVS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_020637

**ORF Size:** 510 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_020637.2</a></u>
<b>RefSeq Size:</b>	513 bp
<b>RefSeq ORF:</b>	513 bp
<b>Locus ID:</b>	27006
<b>UniProt ID:</b>	<u><a href="#">Q9HCT0</a></u>
<b>Cytogenetics:</b>	19p13.3
<b>Protein Families:</b>	Secreted Protein
<b>Protein Pathways:</b>	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
<b>Gene Summary:</b>	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. The mouse homolog of this gene was found to be preferentially expressed in the inner root sheath of the hair follicle, which suggested a role in hair development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]