

## Product datasheet for **RC221629**

### FGF16 (NM\_003868) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FGF16 (NM\_003868) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** FGF16  
**Synonyms:** FGF-16; MF4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC221629 representing NM\_003868  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGAGGTGGGGGGCGTCTTCGCCTCCTTGGACTGGGATCTACACGGCTTCTCCTCGTCTCTGGGGA  
ACGTGCCCTTAGCTGACTCCCCAGGTTTCTGAACGAGCGCTGGGCCAAATCGAGGGGAAGCTGCAGCG  
TGGCTACCCACAGACTTCGCCACCTGAAGGGGATCTGCGGCGCCGAGCTCTACTGCCGACCCGGC  
TTCCACCTGGAGATCTTCCCAACGGCACGGTGCACGGGACCCGCCACGACCACGCCGCTTCGGAATCC  
TGGAGTTTATCAGCCTGGCTGTGGGGCTGATCAGCATCCGGGGAGTGGACTCTGGCCTGTACCTAGGAAT  
GAATGAGCGAGGAGAAGCTATGGGTCTGAAGAACTCACACGTGAATGTGTTTTCCGGGAACAGTTTGAA  
GAAAAGTGGTACAACACCTATGCCTCAACCTTGTACAAACATTCCGACTCAGAGAGACAGTATTACGTGG  
CCCTGAACAAAGATGGCTCACCCGGGAGGGATACAGGACTAAACGACACCAGAAATTCACTCACTTTTT  
ACCCAGGCTGTAGATCCTTCTAAGTTGCCCTCCATGTCCAGAGACCTTTTCACTATAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC221629 representing NM\_003868  
**Red=Cloning site Green=Tags(s)**

MAEVGGVFASLDWDLHGFSSSLGNVPLADSPGFLNERLGQIEGKLQRGSPTDFAHLKGILRRRQLYCRTG  
FHLEIFPNGTVHGTTRHDHSRFGILEFISLAVGLISIRGVDSGLYLMNERGELYGSKKLTRCVFREQFE  
ENWYNTYASTLYKHSDSERQYYVALNKDGSPPREGYRTRKHQKFTHFLPRPVDPSKLPMSRDLFHRYR

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6111\\_h11.zip](https://cdn.origene.com/chromatograms/mk6111_h11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003868

**ORF Size:** 624 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\\_003868.1](#), [NP\\_003859.1](#)

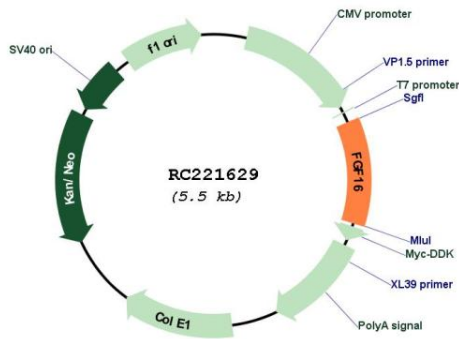
**RefSeq Size:** 624 bp

**RefSeq ORF:** 624 bp

**Locus ID:** 8823

<b>UniProt ID:</b>	<u><a href="#">O43320</a></u>
<b>Cytogenetics:</b>	Xq21.1
<b>Protein Families:</b>	Secreted Protein
<b>Protein Pathways:</b>	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
<b>MW:</b>	23.6 kDa
<b>Gene Summary:</b>	This gene encodes a member of a family of proteins that are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This gene is expressed in cardiac cells and is required for proper heart development. Mutation in this gene was also observed in individuals with metacarpal 4-5 fusion. [provided by RefSeq, Mar 2014]

**Product images:**



Circular map for RC221629