

## Product datasheet for RC219002

### FGF14 (NM\_004115) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids

Tag: Myc-DDK

Symbol: FGF14

Synonyms: FGF-14; FHF-4; FHF4; SCA27

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC219002 representing NM\_004115  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGCGGCCATCGCTAGCGGCTTGATCCGCCAGAAGCGGCAGGCGCGGGAGCAGCACTGGGACCGGC  
 CGTCTGCCAGCAGGAGGCGGAGCAGCCCCAGCAAGAACCAGCGGGCTCTGCAACGGCAACCTGGTGGATAT  
 CTTCTCCAAAGTGCATCTTCGGCCTCAAGAAGCGCAGGTTGCGGCGCCAAGATCCCCAGCTCAAGGGT  
 ATAGTGACCAGGTTATATTGCAGGCAAGGCTACTACTTGCAAATGCACCCGATGGAGCTCTCGATGGAA  
 CCAAGGATGACAGCACTAATTCTACACTCTTCAACCTCATACCAGTGGGACTACGTGTTGTTGCCATCCA  
 GGGAGTGAACAGGGTTGTATATAGCCATGAATGGAGAAGGTTACCTCTACCCATCAGAACTTTTACC  
 CCTGAATGCAAGTTAAAGAATCTGTTTTGAAAATTATTATGTAATCTACTCATCCATGTTGTACAGAC  
 AACAGGAATCTGGTAGAGCCTGGTTTTTGGGATTAAATAAGGAAGGGCAAGCTATGAAAGGGAACAGAGT  
 AAAGAAAACCAACCAGCAGCTCATTTTCTACCAAGCCATTGGAAGTTGCCATGTACCGAGAACCATCT  
 TTGCATGATGTTGGGAAACGGTCCCGAAGCCTGGGGTGACGCCAAGTAAAGCACAAGTGCGTCTGCAA  
 TAATGAATGGAGGCAACCAAGTCAACAAGAGTAAGACAACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC219002 representing NM\_004115  
 Red=Cloning site Green=Tags(s)

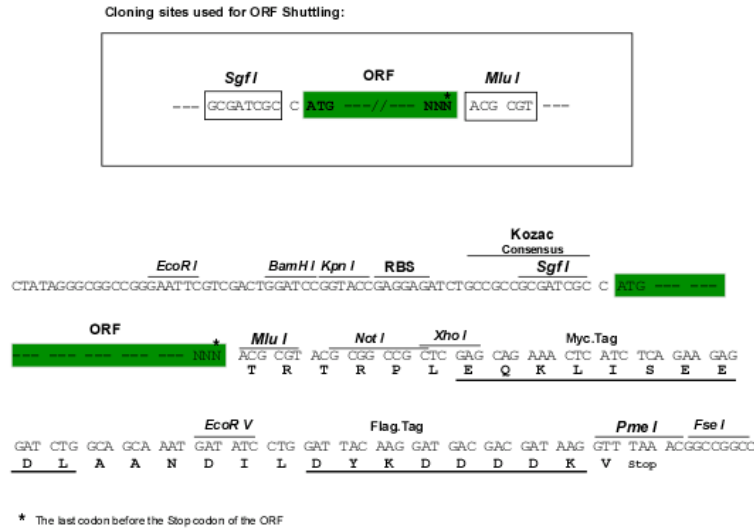
MAAAIASGLIRQKRQAREQHWRPSASRRRSPSKNRGLCNGNLVDIFSKVRIFGLKKRRLRRQDPQLKG  
 IVTRL YCRQGYLQMHPDGLDGTKDDSTNSTLFNLIPVGLRVVAIQGVKTGLYIAMNGEGLYPSELFT  
 PECKFKESVFENYYVIYSSMLYRQQESGRAWFLGLNKEGQAMKGNRVKTKPAAHFLPKPLEVAMYREPS  
 LHDVGETVPKPGVTPSKSTSASAIMNGGKPVNKSSTT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6483\\_e06.zip](https://cdn.origene.com/chromatograms/mk6483_e06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004115

**ORF Size:** 741 bp

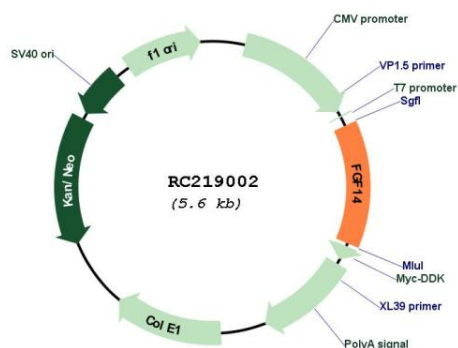
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

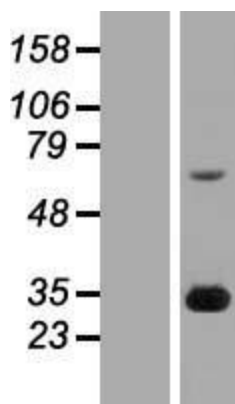
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_004115.4</a>
<b>RefSeq Size:</b>	890 bp
<b>RefSeq ORF:</b>	744 bp
<b>Locus ID:</b>	2259
<b>UniProt ID:</b>	<a href="#">Q92915</a>
<b>Cytogenetics:</b>	13q33.1
<b>Domains:</b>	FGF
<b>Protein Families:</b>	Secreted Protein
<b>Protein Pathways:</b>	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
<b>MW:</b>	27.5 kDa
<b>Gene Summary:</b>	<p>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. A mutation in this gene is associated with autosomal dominant cerebral ataxia. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2008]</p>

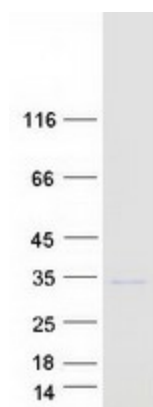
## Product images:



Circular map for RC219002



Western blot validation of overexpression lysate (Cat# [LY418208]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219002 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FGF14 protein (Cat# [TP319002]). The protein was produced from HEK293T cells transfected with FGF14 cDNA clone (Cat# RC219002) using MegaTran 2.0 (Cat# [TT210002]).