

Product datasheet for **RG219002**

FGF14 (NM_004115) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGF14 (NM_004115) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FGF14
Synonyms:	FGF-14; FHF-4; FHF4; SCA27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219002 representing NM_004115 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGGCCATCGCTAGCGGCTTGATCCGCCAGAAGCGGCAGGCGGGAGCAGCACTGGGACCGGC
CGTCTGCCAGCAGGAGGCGGAGCAGCCCCAGCAAGAACC GCGGGCTCGCAACGGCAACCTGGTGGATAT
CTTCTCCAAGTGCGCATCTTCGGCCTCAAGAAGCGCAGGTTGCGGCGCCAAGATCCCCAGCTCAAGGGT
ATAGTGACCAGGTTATATTGCAGGCAAGGCTACTACTTGCAAATGCACCCGATGGAGCTCTCGATGGAA
CCAAGGATGACAGCACTAATTCTACACTCTTCAACCTCATACCAGTGGGACTACGTGTTGTGCCATCCA
GGGAGTAAAACAGGGTTGTATATAGCCATGAATGGAGAAGGTTACCTCTACCCATCAGAACTTTTTACC
CCTGAATGCAAGTTTAAAGAATCTGTTTTTAAAATTATTATGTAATCTACTCATCCATGTTGTACAGAC
AACAGGAATCTGGTAGAGCCTGGTTTTTGGGATTAATAAGGAAGGGCAAGCTATGAAAGGGAACAGAGT
AAAGAAAACCAACCAGCAGCTCATTTTCTACCCAAGCATTGGAAGTTGCCATGTACCGAGAACCATCT
TTGCATGATGTTGGGAAACGGTCCCGAAGCCTGGGGTGACGCCAAGTAAAAGCACAAGTGCCTGTGCAA
TAATGAATGGAGGCAAACCAGTCAACAAGAGTAAGACAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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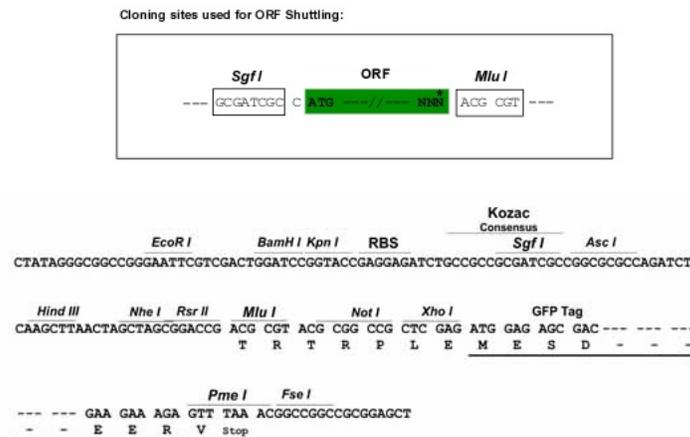
Protein Sequence: >RG219002 representing NM_004115
Red=Cloning site Green=Tags(s)

MAAAIASGLIRQKRQAREQHWRPSASRRRSPSKNRGLCNGNLVDIFSKVRIFGLKKRRLRRQDPQLKG
 IVTRL YCRQGYLQMHPDGDGTDKDDSTNSTLFNLI PVGLRVVAIQGVKTGLYIAMNGEGLYPSELFT
 PECKFKESVFENYYVIYSSMLYRQQESGRAWFLGLNKEGQAMKGNRVKTKPAAHF LPKPLEVAMYREPS
 LHDVGETVPKPGVTPSKSTSASAIMNGGKPVNKS KTT

TRTRPLE - GFP Tag - V

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).

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_004115.4](#)

RefSeq Size: 890 bp

RefSeq ORF: 744 bp

Locus ID: 2259

UniProt ID: [Q92915](#)

Cytogenetics: 13q33.1

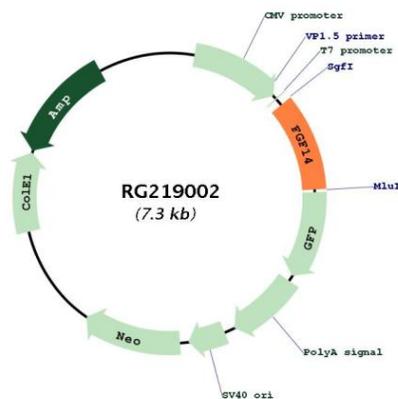
Domains: FGF

Protein Families: Secreted Protein

Protein Pathways: MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton

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. 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]

Product images:



Circular map for RG219002