

# **Product datasheet for RG235973**

## FGF8 (NM 001206389) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** FGF8 (NM\_001206389) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: FGF8

Synonyms: AIGF; FGF-8; HBGF-8; HH6; KAL6

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG235973 representing NM\_001206389.
Sequence: Blue=ORF Red=Cloning site Green=Tag(s)

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCAGAGGCGACCCCTTCGCAAAGCTCATCGTGGAGACCGCCACCTTTGGAAGCAGAGTTCGAGTCCGAGGAGCCGAGACCGCCTCTCGCAAGAGCTCATCGAGAACAAGAAGGGGAAGCTGATCGCCAAGAGCAACGCAAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGGCAAGGGCTGCTTCACCGGAGATTGTGCTGGAGAACAACTACACAGCGCTGCAGAATGCCAAGTACGAGGGCTGGTACATGGCCTTCACCCGCAAGGGCCCCCGCAAGGGCTCCAAGACGCGGCAGCACCACCACCACCACCACCACCAGAGAGCCTGCGCTTCCAGGTTCCTCAACTACCCGCCCTTCACGCGCAGCCTGCCCCGGGCAGCCAGAGCAGAGCCTTGGGCCCCCGAG

CCCCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

**Protein Sequence:** >Peptide sequence encoded by RG235973

Blue=ORF Red=Cloning site Green=Tag(s)

MAEDGDPFAKLIVETDTFGSRVRVRGAETGLYICMNKKGKLIAKSNGKGKDCVFTEIVLENNYTALQNA KYEGWYMAFTRKGRPRKGSKTRQHQREVHFMKRLPRGHHTTEQSLRFEFLNYPPFTRSLRGSQRTWAPE

PR

TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA

FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-Mlul



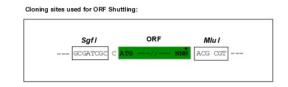
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

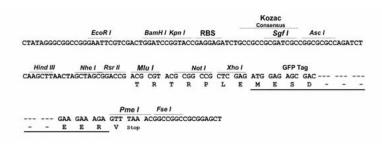
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

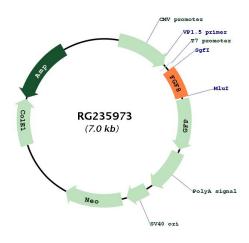


#### **Cloning Scheme:**





#### Plasmid Map:



**ACCN:** NM 001206389

ORF Size: 420 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.



### FGF8 (NM\_001206389) Human Tagged ORF Clone - RG235973

**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).

**RefSeq:** NM 001206389.2

RefSeq Size: 856 bp
RefSeq ORF: 423 bp
Locus ID: 2253

Cytogenetics: 10q24.32

**Protein Families:** Druggable Genome, Secreted Protein

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

**MW:** 16.7 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 is known to be a factor that supports androgen and anchorage independent growth of mammary tumor cells. Overexpression of this gene has been shown to increase tumor growth and angiogensis. The adult expression of this gene is restricted to testes and ovaries. Temporal and spatial pattern of this gene expression suggests its function as an embryonic epithelial factor. Studies of the mouse and chick homologs revealed roles in midbrain and limb development, organogenesis, embryo gastrulation and left-right axis determination. The alternative splicing of this gene

results in four transcript variants. [provided by RefSeq, Jul 2008]