

## 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 Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG235973 representing NM\_001206389.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGAGGACGGCGACCCCTTCGAAAGCTCATCGTGGAGACGGACACCTTTGGAAGCAGAGTTCGA
GTCCGAGGAGCCGAGACGGGCCTCTACATCTGCATGAACAAGAAGGGGAAGCTGATCGCCAAGAGCAAC
GGCAAAGGCAAGGACTGCGTCTTACGGAGATTGTGCTGGAGAACAACACACAGCGCTGCAGAATGCC
AAGTACGAGGGCTGGTACATGGCCTTACCCGCAAGGGCCGCCCGCAAGGGCTCCAAGACGGCGAG
CACCAGCGTGAGGTCCACTTCATGAAGCGGCTGCCCGGGGCCACCACACCAGCAGAGCCTGCGC
TTCGAGTTCCTCAACTACCCGCCCTTACGCGCAGCCTGCGCGCAGCCAGAGGACTTGGCCCCCGAG
CCCCGA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG235973  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAEDGDPFAKLIVETDTFGSRVRVIRGAETGLYICMKNKGKLIKSNKGKDCVFTEIVLENNYALQNA
KYEGWYMAFTRKGRPRKGSKTRQHOREVHFMKRLPRGHHTTEQSLRFEFLNYPPFTRSLRGSQRTWAPE
PR
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** Sgfl-MluI



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<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>RefSeq:</b>	<u>NM_001206389.2</u>
<b>RefSeq Size:</b>	856 bp
<b>RefSeq ORF:</b>	423 bp
<b>Locus ID:</b>	2253
<b>Cytogenetics:</b>	10q24.32
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
<b>MW:</b>	16.7 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. 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 angiogenesis. 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]</p>