

## Product datasheet for **RG214516**

### FGF8 (NM\_033163) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FGF8 (NM_033163) 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:	>RG214516 representing NM_033163 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCAGCCCCGCTCCGCGCTGAGCTGCCTGCTGTTGCACTTGTGGTCTCTGCCTCCAAGCCAGG  
AAGGCCCGGGCAGGGGCCCTGCGCTGGGCAGGGAGCTCGCTTCCCTGTTCCGGGCTGGCCGGGAGCCCCA  
GGGTGTCTCCCAACAGGTAAGTGTTCAGTCCTCACCTAATTTTACACAGCATGTGAGGGAGCAGAGCCTG  
GTGACGGATCAGCTCAGCCGCCCTCATCCGGACCTACCAACTTACAGCCGCACCAGCGGGAAGCAGC  
TGCAGGTCTGGCCAACAAGCGCATCAACGCCATGGCAGAGGACGGCGACCCCTTCGCAAAGCTCATCGT  
GGAGACGGACACCTTTGGAAGCAGAGTCCGAGTCCGAGGAGCCGAGACGGGCCTTACATCTGCATGAAC  
AAGAAGGGGAAGCTGATCGCCAAGAGCAACGGCAAGGCAAGGACTGCGTCTTACGGGAGATTGTGCTGG  
AGAACTACACAGCGCTGCAGAAATGCCAAGTACGAGGGCTGGTACATGGCCTTACCCGCAAGGGCCG  
GCCCCGCAAGGGCTCCAAGACGGCAGCACCAGCGTGAGGTCCACTTCAAGAGCGGCTGCCCCGGGGC  
CACCACACCAGCAGAGCCTGCGCTTCGAGTTCCTCAACTACCCGCCCTTACGCGCAGCCTGCGCG  
GCAGCCAGAGGACTTGGGCCCCGAGCCCCGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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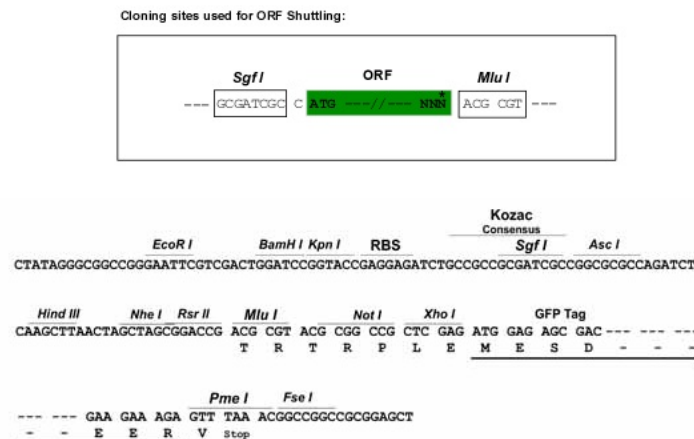
**Protein Sequence:** >RG214516 representing NM\_033163  
 Red=Cloning site Green=Tags(s)

MGSPRSALSCLLLHLLVLCLQAQEGPGRGPALGRELASLFRAGREPQGVSQQVTVQSSPNFTQHVREQSL  
 VTDQLSRRLIRTYQLYSRTSGKHVQVLANKRINAMAEDGDPF AKLIVETDTFGSRVVRVGAETGLYICMN  
 KKGKLIAKSNGKGDVCFTEIVLENNYALQNAKYEYWMAFTRKGRPRKGSKTRQHQREVHFMKRLPRG  
 HHTTEQSLRFEFLNYPFFTRSLRGSQRTWAPEPR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_033163

**ORF Size:** 732 bp

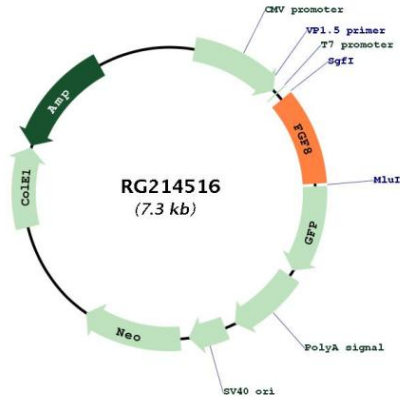
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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>RefSeq:</b>	<a href="#">NM_033163.1</a> , <a href="#">NP_149353.1</a>
<b>RefSeq Size:</b>	1107 bp
<b>RefSeq ORF:</b>	735 bp
<b>Locus ID:</b>	2253
<b>UniProt ID:</b>	<a href="#">P55075</a>
<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>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>

Product images:



Circular map for RG214516