

## Product datasheet for **MG227594**

### **Fgf8 (NM\_001166362) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fgf8 (NM_001166362) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fgf8
Synonyms:	Aigf; Fgf-8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227594 representing NM_001166362 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCAGCCCCGCTCCGCGCTGAGCTGCCTGCTGTTGCACTTGCTGGTTCTCTGCCTCCAAGCCAGG  
TAACTGTTCACTCCTCACCTAATTTTACACAGCATGTGAGGGAGCAGAGCCTGGTGACGGATCAGCTCAG  
CCGCCGCTCATCCGGACCTACCAGCTCTACAGCCGACCAGCGGAAGCACGTGCAGGCTCTGGCCAAC  
AAGCGCATCAACGCCATGGCAGAAGACGGAGACCCCTTCGCGAAGCTCATTGTGGAGACCGATACTTTG  
GAAGCAGAGTCCGAGTTCGCGGCGCAGAGACAGGTCTCTACATCTGCATGAACAAGAAGGGGAAGCTAAT  
TGCCAAGAGCAACGGCAAAGGCAAGGACTGCGTATTCACAGAGATCGTGCTGGAGAACAACCTACACGGCG  
CTGCAGAACGCCAAGTACGAGGGCTGGTACATGGCCTTTACCCGCAAGGGCCGGCCCCGCAAGGGCTCCA  
AGACGCGCCAGCATCAGCGCGAGGTGCACTTCATGAAGCGCTGCCGCGGGGCCACCACACCACCGAGCA  
GAGCCTGCGCTTCGAGTTCCTCAACTACCCGCCCTTCACGCGCAGCCTGCCGCGCAGCCAGAGGACTTGG  
GCCCGGAGCCCCGA

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG227594 representing NM\_001166362  
 Red=Cloning site Green=Tags(s)

MGSPRSALSCLLLHLLVLCLQAQVTVQSSPNFTQHVREQSLVTDQLSRRLIRTYQLYSRTSGKHVQVLAN  
 KRINAMAEDGDPFAKLI VETDTFGSRVVRGAETGLYICMKNKGLIAKSNKGKDCVFT EIVLENNYTA  
 LQNAKEYGWYMAFTRKGRPRKGSKTRQHQRREVHFMKRLPRGHHTTEQSLRFEFLNYPFFTRSLRGSQRTW  
 APEPR

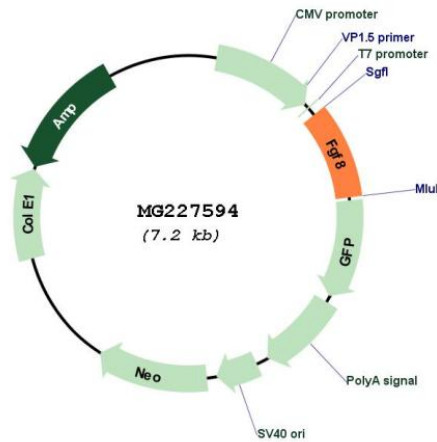
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001166362

**ORF Size:** 645 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>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_001166362.1</a> , <a href="#">NP_001159834.1</a>
<b>RefSeq Size:</b>	1101 bp
<b>RefSeq ORF:</b>	648 bp
<b>Locus ID:</b>	14179
<b>UniProt ID:</b>	<a href="#">P37237</a>
<b>Cytogenetics:</b>	19 38.75 cM
<b>Gene Summary:</b>	Plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. Required for normal brain, eye, ear and limb development during embryogenesis. Required for normal development of the gonadotropin-releasing hormone (GnRH) neuronal system. Plays a role in neurite outgrowth in hippocampal cells (By similarity). Cooperates with Wnt-1 in mouse mammary tumor virus-induced murine mammary tumorigenesis (PubMed:7884899).[UniProtKB/Swiss-Prot Function]