

## Product datasheet for **MG203044**

### **Fgf8 (BC048734) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fgf8 (BC048734) 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:	>MG203044 representing BC048734 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCAGCCCCGCTCCGCGCTGAGCTGCCTGCTGTTGCACTTGTGTTCTCTGCCTCAAGCCAGG  
AAGGCCCGGGCGGGGGCTGCGCTGGGCAGGGAGCCCACTTCCCTGCTCCGAGCTGGCCGGAGCCCCA  
GGGTGTTTCCCAACAGGTAAGTGTTCAGTCCTCACCTAATTTTACACAGCATGTGAGGGAGCAGAGCCTG  
GTGACGGATCAGCTCAGCCGCCCTCATCCGGACCTACCAGCTCTACAGCCGCACCAGCGGAAGCAGC  
TGCAGGTCTGGCCAACAAGCGCATCAAGCCATGGCAGAAGACGGAGACCCCTTCGCGAAGCTCATTGT  
GGAGACCGATACTTTTGAAGCAGAGTCCGAGTTCGCGGCGCAGAGACAGGTCTCTACATCTGCATGAAC  
AAGAAGGGGAAGCTAATTGCAAGAGCAACGGCAAGGCAAGGACTGCGTATTCACAGAGATCGTGTGG  
AGAACTACACGGCGCTGCAGAACGCCAAGTACGAGGGCTGGTACATGGCCTTACCCGCAAGGGCCG  
GCCCCGAAGGGCTCCAAGACGCCAGCATCAGCGCAGGTGCACTTTCATGAAGCGCTGCCGCGGGG  
CACCACACCAGCAGAGCCTGCGCTTCGAGTTCCTCAACTACCCGCCCTTACGCGCAGCCTGCGCG  
GCAGCCAGAGGACTTGGGCCCGAGCCCCGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203044 representing BC048734  
 Red=Cloning site Green=Tags(s)

MGSPRSALSCLLLHLLVLCLQAQEGPGGPPALGREPTSLLRAGREPQGVSSQVTVQSSPNFTQHVREQSL  
 VTDQLSRRLIRTYQLYSRTSGKHVQVLANKRINAMAEDGDPF AKLIVETDTFGSRVVRVGAETGLYICMN  
 KKGKLIAKSNGKGDVCFTEIVLENNYALQNAKYEYWMAFTRKGRPRKGSKTRQHQRVHFMKRLPRG  
 HHTTEQSLRFELNYPFTRSLRGSQRTWAPEPR

TRTRPLE - GFP Tag - V

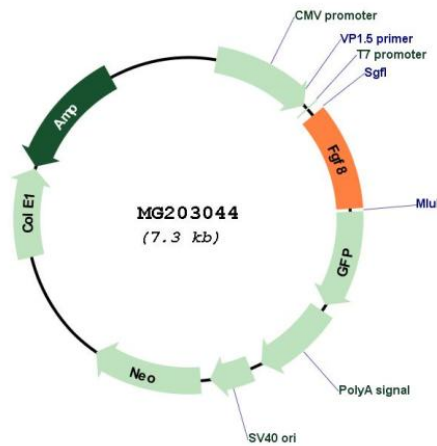
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** BC048734

**ORF Size:** 734 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="#">BC048734</a> , <a href="#">AAH48734</a>
<b>RefSeq Size:</b>	1178 bp
<b>RefSeq ORF:</b>	734 bp
<b>Locus ID:</b>	14179
<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]