

## Product datasheet for **MC208491**

### **Fgf8 (NM\_001166363) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fgf8 (NM\_001166363) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Fgf8  
**Synonyms:** Aigf; Fgf-8  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC208491 representing NM\_001166363  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCAGCCCCGCTCCGCGTGAGCTGCCTGCTGTTGCACTTGTGGTTCTCTGCCTCAAGCCCAGC  
ATGTGAGGGAGCAGAGCCTGGTGACGGATCAGCTCAGCCGCCCTCATCCGGACCTACCAGCTCTACAG  
CCGCACCAGCGGAAGCAGCTGCAGGTCCTGGCCAACAAGCGCATCAACGCCATGGCAGAAGACGGAGAC  
CCCTTCGCGAAGCTCATTGTGGAGACCGATACTTTGGAAGCAGAGTCCGAGTTCGCGGGCAGAGACAG  
GTCTCTACATCTGCATGAACAAGAAGGGGAAGCTAATTGCCAAGAGCAACGGCAAAGGCAAGGACTGCGT  
ATTCACAGAGATCGTGTGGAGAACAACACTACACGGCGTGCAGAACGCCAAGTACGAGGGCTGGTACATG  
GCCTTTACCCGCAAGGGCCGGCCCGCAAGGGCTCCAAGACGCGCCAGCATCAGCGCGAGGTGCACTTCA  
TGAAGCGCTGCCGCGGGGCCACCAACCCAGCAGAGCCTGCGCTTCGAGTTCCTCAACTACCCGCC  
CTTCACGCGCAGCCTGCGCGGCAGCCAGAGGACTTGGGCCCGGAGCCCGAT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001166363  
**Insert Size:** 615 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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>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>	<u>NM_001166363.1, NP_001159835.1</u>
<b>RefSeq Size:</b>	1068 bp
<b>RefSeq ORF:</b>	615 bp
<b>Locus ID:</b>	14179
<b>UniProt ID:</b>	<u>P37237</u>
<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] Transcript Variant: This variant (4) lacks an internal segment in the 5' coding region, as compared to variant 1. The reading frame is not changed and the resulting isoform (4) lacks an internal segment in the N-terminal region, as compared to isoform 1.