

## Product datasheet for **MR227594**

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

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Fgf8 (NM\_001166362) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Fgf8  
 Synonyms: Aigf; Fgf-8  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR227594 representing NM\_001166362  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCAGCCCCGCTCCGCGCTGAGCTGCCTGCTGTTGCACTTGTGTTCTCTGCCTCCAAGCCAGG  
 TAACTGTTCACTCCTCACCTAATTTTACACAGCATGTGAGGGAGCAGAGCCTGGTGACGGATCAGCTCAG  
 CCGCCGCCTCATCCGGACCTACCAGCTCTACAGCCGCACCAGCGGAAGCACGTGCAGGCTCTGGCCAAC  
 AAGCGCATCAACCCATGGCAGAAGACGGAGACCCCTTCGCGAAGCTCATTGTGGAGACCGATACTTTG  
 GAAGCAGAGTCCGAGTTCGCGGCGCAGAGACAGGTCTCTACATCTGCATGAACAAGAAGGGGAAGCTAAT  
 TGCCAAGAGCAACGGCAAAGGCAAGGACTGCGTATTCACAGAGATCGTGCTGGAGAACAACCTACACGGCG  
 CTGCAGAACGCCAAGTACGAGGGCTGGTACATGGCCTTTACCCGCAAGGGCCGGCCCCGCAAGGGCTCCA  
 AGACGCGCCAGCATCAGCGCGAGGTGCACTTCATGAAGCGCTGCCGCGGGGCCACCACACCACCGAGCA  
 GAGCCTGCGCTTCGAGTTCCTCAACTACCCGCCCTTCACGCGCAGCCTGCCGCGCAGCCAGAGGACTTGG  
 GCCCCGGAGCCCCGA

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR227594 representing NM\_001166362  
 Red=Cloning site Green=Tags(s)

MGSPRSALSCLLLHLLVLCLQAQVTVQSSPNFTQHVREQSLVTDQLSRRLIRTYQLYSRTSGKHVQVLAN  
 KRINAMAEDGDPFAKLI VETDTFGSRVVRGAETGLYICMNNKKGKLI AKSNGKGDVCFTEIVLENNYTA  
 LQNAKYEGWYMAFTRKGRPRKGSKTRQHQRVHFMKRLPRGHHTTEQSLRFEFLNYPFFTRSLRGSQRTW  
 APEPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001166362

**ORF Size:** 645 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_001166362.1](#), [NP\\_001159834.1](#)

**RefSeq Size:** 1101 bp

**RefSeq ORF:** 648 bp

**Locus ID:** 14179

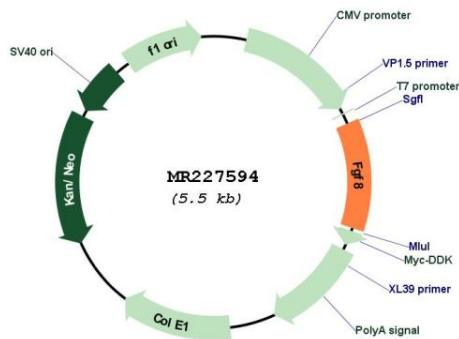
**UniProt ID:** [P37237](#)

**Cytogenetics:** 19 38.75 cM

**MW:** 25.2 kDa

**Gene Summary:** 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]

### Product images:



Circular map for MR227594