

## Product datasheet for **MG227585**

### **Fgf8 (NM\_010205) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fgf8 (NM_010205) 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:	>MG227585 representing NM_010205 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCAGCCCCGCTCCGCGCTGAGCTGCCTGCTGTTGCACTTGTGTTCTCTGCCTCCAAGCCAGG  
TAAGGAGCGCTGCGCAGAAGCGGGGGCCGGGCGGGGAACCCAGCTGACTCTCGGCAGGGACACGA  
GGACCGACCTTCGGCCAGCGCAGCAGGGCTGAAAGAAGCTTACAAATCCAGCCCCAACTACCCGAG  
GAGGGATCTAAGGAACAGAGAGACAGTGTCTGCCTAAAGTACACAGCGACATGTGAGGGAGCAGAGCC  
TGGTGACGGATCAGCTCAGCCGCCCTCATCCGGACCTACCAGCTCTACAGCCGACCAGCGGGAAGCA  
CGTGACAGTCTCGCCAAACAAGCGCATCAACGCCATGGCAGAAGACGGAGACCCCTTCGCGAAGCTCATT  
GTGGAGACCGATACTTTTGAAGCAGAGTCCGAGTTCGCGGCGCAGAGACAGGTCTCTACATCTGCATGA  
ACAAGAAGGGGAAGCTAATTGCCAAGAGCAACGGCAAAGGCAAGGACTGCGTATTACAGAGATCGTGCT  
GGAGAACAACACACGGCGCTGCAGAACGCCAAGTACGAGGGCTGGTACATGGCCTTTACCCGCAAGGGC  
CGGCCCCGCAAGGGCTCCAAGACGCGCCAGCATCAGCGCAGGTGCACTTTCATGAAGCGCCTGCCGCGGG  
GCCACCACACCAGCAGAGCCTGCGCTTCGAGTTCCTCAACTACCCGCCCTTACGCGCAGCCTGCG  
CGGCAGCCAGAGGACTTGGGCCCGGAGCCCCGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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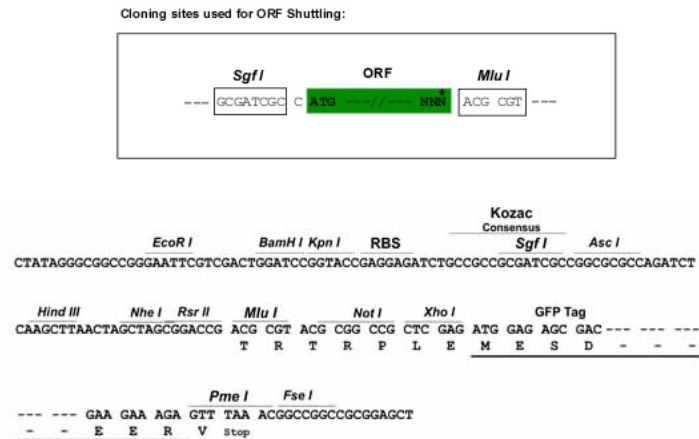
**Protein Sequence:** >MG227585 representing NM\_010205  
 Red=Cloning site Green=Tags(s)

MGSPRSALSCLLLHLLVLCLQAQVRSAAQKRGPAGNPADTLGQGHEDRPFQQRSRAGKNFTNPAPNYPE  
 EGSKEQRDSVLPKVTQRHVREQLVTDQLSRRLIRTYQLYSRTSGKHVQVLANKRINAMAEDGDPFALKI  
 VETDTFGSRVVRGAETGLYICMNKKGKLIAKSNGKGDVFEIVLENNYALQNAKEYGWYMAFTRKG  
 RPRKGSKTRQHQRVHFMRKRLPRGHHTTEQLRFEFNLNYPFTRSLRGSQRTWAPEPR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010205

**ORF Size:** 804 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\\_010205.2](#), [NP\\_034335.1](#)

**RefSeq Size:** 1260 bp

**RefSeq ORF:** 807 bp

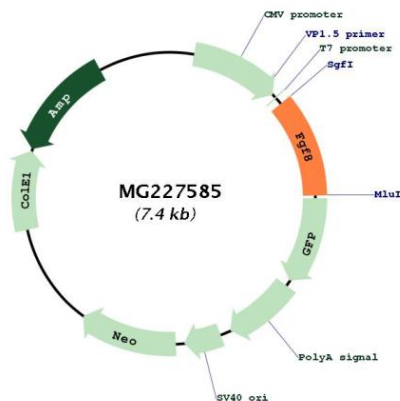
**Locus ID:** 14179

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

**Cytogenetics:** 19 38.75 cM

**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 MG227585