

Product datasheet for **MR203044**

Fgf8 (NM_001166361) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fgf8 (NM_001166361) 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: >MR203044 representing NM_001166361
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAGCCCCCGCTCCGCGCTGAGCTGCCTGCTGTTGCACTTCTGCTGTTCTCTGCCTCCAAGCCAGG
AAGGCCCGGGCGGGGGCTGCGCTGGGCAGGGAGCCCACTTCCCTGCTCCGAGCTGGCCGGAGCCCCA
GGGTGTTTCCCAACAGGTAAGTGTTCAGTCCTCACCTAATTTTACACAGCATGTGAGGGAGCAGAGCCTG
GTGACGGATCAGCTCAGCCGCCCTCATCCGGACCTACCAGCTCTACAGCCGCACCAGCGGAAGCAGC
TGCAGGTCTGGCCAACAAGCGCATCAACGCCATGGCAGAAGACGGAGACCCCTTCGCGAAGCTCATTGT
GGAGACCGATACTTTTGAAGCAGAGTCCGAGTTCGCGGCGCAGAGACAGGTCTCTACATCTGCATGAAC
AAGAAGGGGAAGCTAATTGCCAAGAGCAACGGCAAGGCAAGGACTGCGTATTCACAGAGATCGTGTGG
AGAACTACACGGCGCTGAGAACGCCAAGTACGAGGGCTGGTACATGGCCTTTACCCGCAAGGGCCG
GCCCCGCAAGGGCTCCAAGACGCGCCAGCATCAGCGCAGGTGCACTTCAAGAGCGCTGCCGCGGGG
CACCACACCAGCAGAGCCTGCGCTTCGAGTTCCTCAACTACCCGCCCTTACGCGCAGCCTGCGCG
GCAGCCAGAGGACTTGGGCCCGGAGCCCCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203044 representing NM_001166361
 Red=Cloning site Green=Tags(s)

MGSPRSALSCLLLHLLVLCLQAQEGPGGGPALGREPTSLLRAGREPQGVSSQVTVQSSPNFTQHVREQSL
 VTDQLSRRLIRTYQLYSRTSGKHVQVLANKRINAMAEDGDPF AKLIVETDTFGSRVVRVGAETGLYICMN
 KKGKLIASNGKGDVCFTEIVLENNYALQNAKYEGWYMAFTRKGRPRKGSKTRQHQREVHFMKRLPRG
 HHTTEQSLRFEFLNYPPFTRSLRGSQRTWAPEPR

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_001166361

ORF Size: 732 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_001166361.1](#), [NP_001159833.1](#)

RefSeq Size: 1188 bp

RefSeq ORF: 735 bp

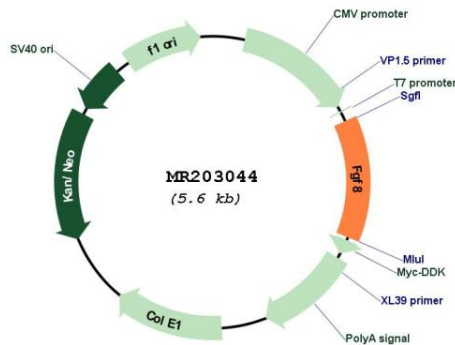
Locus ID: 14179

Cytogenetics: 19 38.75 cM

MW: 28 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 MR203044