

Product datasheet for MR201628

Fgf12 (NM_010199) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fgf12 (NM_010199) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fgf12
Synonyms: AV114868; B230343J05Rik; FGF-12; FHF-1; Fhf1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201628 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGAGCAAAGAACCCAGCTGAAAGGGATTGTGACAAGTTATTCAGCCAGCAGGGATATTTCTGCG
 AGATGCATCCAGATGGTACCATTGATGGGACCAAGGACGAAAACAGCGACTACACCCTCTCAATCTAAT
 TCCTGTAGGACTGCGTGTGGTGGCCATCCAAGGGTTAAAGCCAGCCTTTATGTGGCCATGAATGGAGAA
 GGCTATCTCTACAGCTCAGATGTTTTACCCAGAATGCAAATTAAGGAGTCTGTGTTGAAACTACT
 ATGTGATCTATTCCTCAACCCTGTATCGCCAGCAGGAATCAGGCCGTGCATGGTTTCTAGGACTCAATAA
 AGAAGGTCAAATCATGAAGGGGAACAGAGTGAAGAAAACCAAGCCCTCATCTCATTTGTACCAAAACCT
 ATTGAAGTGTGTATGTACAGAGAACCATCACTACACGAAATTGGAGAAAAGCAAGGACGCTCAAGGAAAA
 GTTCGGGAACACCCACCATGAATGGAGGCAAAGTCGTGAATCAAGATTCTACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201628 protein sequence
 Red=Cloning site Green=Tags(s)

MESKEPQLKGIVTRLFSQQGYFLQMHPDGTIDGTDKENDSYTLFNLIPVGLRVVAIQGVKASLYVAMNGE
 GYLSSDVFTPECKFKESVFENYYVIYSSTLYRQQESGRAWFLGLNKEGQIMKGNRVKTKPSSHVFPKP
 IEVCMYREPSLHEIGEKQGRSRKSSGTPTMNGGKVVNQDST

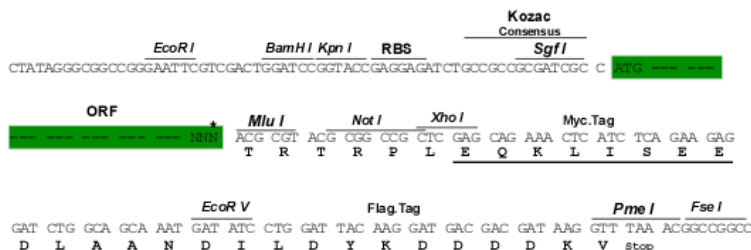
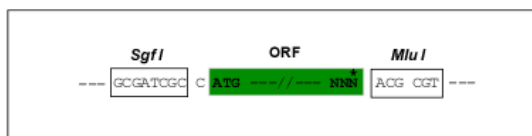
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010199

ORF Size: 546 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_010199.4](#), [NP_034329.1](#)

RefSeq Size: 4607 bp

RefSeq ORF: 546 bp

Locus ID: 14167

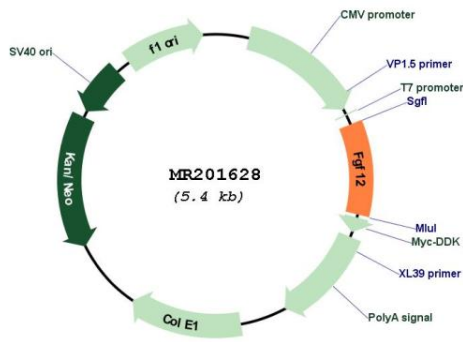
UniProt ID: [P61329](#)

Cytogenetics: 16 19.38 cM

MW: 20.4 kDa

Gene Summary: Involved in nervous system development and function. Promote neuronal excitability by elevating the voltage dependence of neuronal sodium channel SCN8A fast inactivation. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201628