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Product datasheet for MR228819

Fgf13 (NM_001290414) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgf13 (NM_001290414) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fgf13
Synonyms:	Fhf2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR228819 representing NM_001290414 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGTGGAAAGGTGACCAAGCCCAAAGAGGAGAAAGATGCTTCTAAGGTTCTGGATGACGCCCCCCCTG GCACACAGGAATACATTATGTTACGACAAGATTCCATCCAATCTGCGGAATTAAAGAAAAAAGAGTCCCC CTTTCGTGCTAAGTGTCACGAAATCTTCTGCTGCCCGCTGAAGCAAGTGCACCACAAAGAAAACACAGAA CCCGAAGAGCCTCAGCTTAAGGGTATAGTTACCAAACTATACAGCCGACAAGGCTACCACTTGCAACTGC AGGCAGATGGAACCATTGATGGCACCAAAGACGAGGACAGCACTTACACTCTGTTTAACCTCATCCCTGT GGGTCTTCGGGTGGTGGCTATTCAAGGAGTTCAAACCAAGCTGTATTTGGCAATGAACAGCGAGGGATAC TTGTACACCTCGGAACATTTCACACCTGAGTGCAAATTCAAAGAATCAGTGTTTGAAAATTATTACGTGA CATACTCATCAATGATCTACCGTCAGCAGCAATCCGGCCGAGGGTGGTATCTAGGTCTGAACAAAGAAGG AGAGATCATGAAAGGCAACCATGTGAAGAAGAACAAGCCTGCAGCACATTTTCTGCCCAAACCACTGAAA GTGGCCATGTACAAGGAGCCATCTCTGCACGATCTCACGGAGTTCTCCCGATCTGGAAGTGGGACCCCGA CCAAGAGCAGAAGCGTCTCTGGTGTACTGAATGGAGGCAAATCCATGAGCCACAACGAATCAACG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

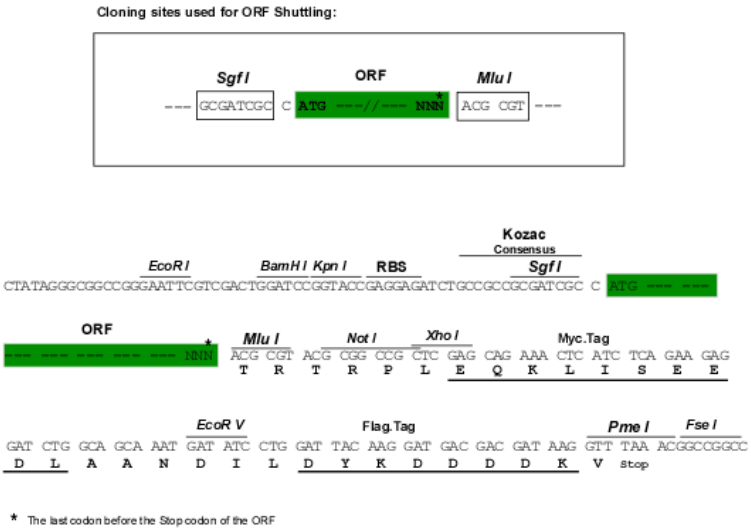
>MR228819 representing NM_001290414
Red=Cloning site Green=Tags(s)

MSGKVTKPKEEKDASKVLDDAPPGTQEYIMLRQDSIQSAELKKKESPFRAKCHEIFCCPLKQVHHKENTE
PEEPQLKGIVTKLYSRQGYHLQLQADGTIDGTKDEDSTYTLFNLIPVGLRVVAIQGVQTKLYLAMNSEGY
LYTSEHFTPECKFKESVFENYYVTYSSMIYRQQQSGRGWYLGLNKEGEIMKGNHVKKNKPAAHFLPKPLK
VAMYKEPSLHDLTEFSRSGSGTPTKSRSVSGVLNGGKSMSHNEST

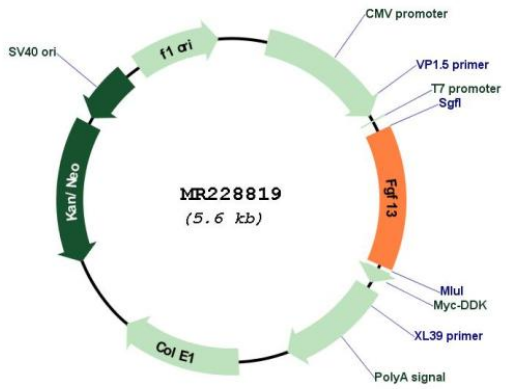
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290414

ORF Size: 765 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_001290414.1, NP_001277343.1
RefSeq Size:	2504 bp
RefSeq ORF:	768 bp
Locus ID:	14168
Cytogenetics:	X 33.31 cM
MW:	29.2 kDa
Gene Summary:	Microtubule-binding protein which directly binds tubulin and is involved in both polymerization and stabilization of microtubules. Through its action on microtubules, may participate to the refinement of axons by negatively regulating axonal and leading processes branching. Plays a crucial role in neuron polarization and migration in the cerebral cortex and the hippocampus.[UniProtKB/Swiss-Prot Function]