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Product datasheet for RC227518

FGF13 (NM_001139502) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGF13 (NM_001139502) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FGF13
Synonyms:	DEE90; FGF-13; FGF2; FHF-2; FHF2; LINC00889
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC227518 representing NM_001139502 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTACGACAAGATTCCATCCAATCTGCGGAATTAAAGAAAAAAGAGTCCCCCTTTCGTGCTAAGTGTC ACGAAATCTTCTGCTGCCCGCTGAAGCAAGTACACCACAAAGAGAACACAGAGCCGGAAGAGCCTCAGCT TAAGGGTATAGTTACCAAGCTATACAGCCGACAAGGCTACCACTTGCAGCTGCAGGCGGATGGAACCATT GATGGCACCAAAGATGAGGACAGCACTTACACTCTGTTTAACCTCATCCCTGTGGGTCTGCGAGTGGTGG CTATCCAAGGAGTTCAAACCAAGCTGTACTTGGCAATGAACAGTGAGGGATACTTGTACACCTCGGAACT TTTCACACCTGAGTGCAAATTCAAAGAATCAGTGTTTGAAAATTATTATGTGACATATTCATCAATGATA TACCGTCAGCAGCAGTCAGGCCGAGGGTGGTATCTGGGTCTGAACAAAGAAGGAGAGATCATGAAAGGCA ACCATGTGAAGAAGAACAAGCCTGCAGCTCATTTTCTGCCTAAACCACTGAAAGTGGCCATGTACAAGGA GCCATCACTGCACGATCTCACGGAGTTCTCCCGATCTGGAAGCGGGACCCCAACCAAGAGCAGAAGTGTC TCTGGCGTGCTGAACGGAGGCAAATCCATGAGCCACAATGAATCAACG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

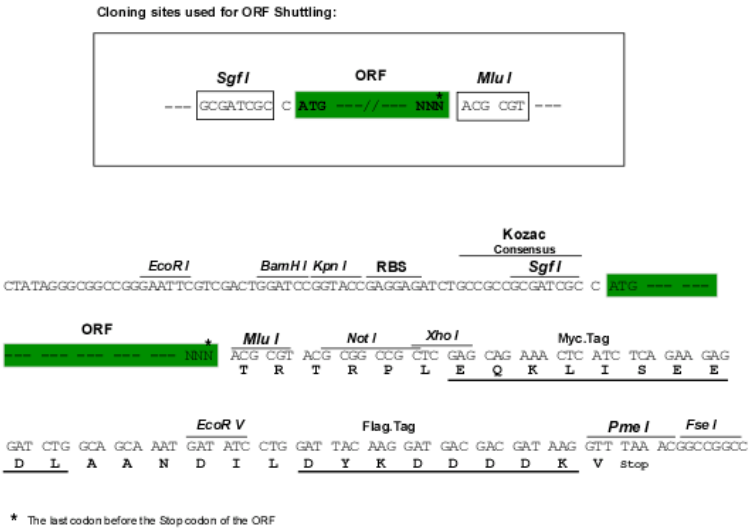
>RC227518 representing NM_001139502
Red=Cloning site Green=Tags(s)

MLRQDSIQSAELKKKESPFRAKCHEIFCCPLKQVHHKENTEPEEPQLKGIVTKLYSRQGYHLQLQADGTI
DGTKDEDSTYTLFNLIPVGLRVVAIQGVQTKLYLAMNSEGYLYTSELFTPECKFKESVFENYYVTYSSMI
YRQQQSGRGWYLGLNKEGEIMKGNHVKKNKPAAHFLPKPLKVAMYKEPSLHDLTEFSRSGSGTPTKSRSV
SGVLNGGKSMSHNEST

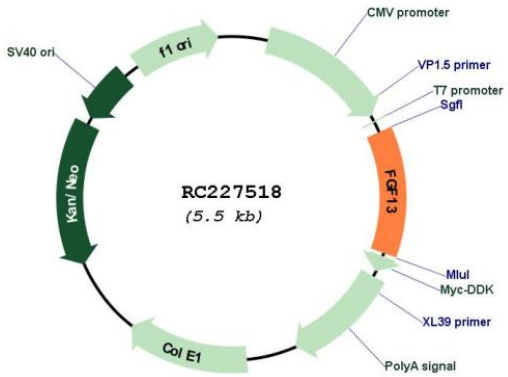
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001139502

ORF Size: 678 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_001139502.2
RefSeq ORF:	681 bp
Locus ID:	2258
UniProt ID:	Q92913
Cytogenetics:	Xq26.3-q27.1
Protein Families:	Secreted Protein
Protein Pathways:	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
MW:	25.4 kDa
Gene Summary:	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. This gene is located in a region on chromosome X, which is associated with Borjeson-Forssman-Lehmann syndrome (BFLS), making it a possible candidate gene for familial cases of the BFLS, and for other syndromal and nonspecific forms of X-linked cognitive disability mapping to this region. Alternative splicing of this gene at the 5' end results in several transcript variants encoding different isoforms with different N-termini. [provided by RefSeq, Nov 2008]