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Product datasheet for RC205427

FGF12 (NM_004113) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGF12 (NM_004113) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FGF12
Synonyms:	DEE47; EIEE47; FGF12B; FHF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC205427 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAGCAAAGAACCCCAGCTAAAAGGGATTGTGACAAGGTTATTCAGCCAGCAGGGATACTTCCTGC
AGATGCACCCAGATGGTACCATTGATGGGACCAAGGACGAAAACAGCGACTACACTCTCTTCAATCTAAT
TCCCGTGGGCCTGCGTGTAGTGGCCATCCAAGGAGTGAAGGCTAGCCTCTATGTGGCCATGAATGGTGAA
GGCTATCTCTACAGTTCAGATGTTTTCACTCCAGAATGCAAATTCAAGGAATCTGTGTTTGAAAACTACT
ATGTGATCTATTCTTCCACACTGTACCGCCAGCAAGAATCAGGCCGAGCTTGGTTTCTGGGACTCAATAA
AGAAGGTCAAATTATGAAGGGGAACAGAGTGAAGAAAACCAAGCCCTCATCACATTTTGTACCGAAACCT
ATTGAAGTGTGTATGTACAGAGAACAATCGCTACATGAAATTGGAGAAAAACAAGGGCGTTCAAGGAAAA
GTTCTGGAACACCAACCATGAATGGAGGCAAAGTTGTGAATCAAGATTCAACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205427 protein sequence
Red=Cloning site Green=Tags(s)

MESKEPQLKGIVTRLFSQQGYFLQMHPDGTIDGTKDENSDYTLFNLIPVGLRVVAIQGVKASLYVAMNGE
GYLYSSDVFTPECKFKESVFENYYVIYSSTLYRQQESGRAWFLGLNKEGQIMKGNRVKKTKPSSHFVPKP
IEVCMYREQSLHEIGEKQGRSRKSSGTPTMNGGKVVNQDST

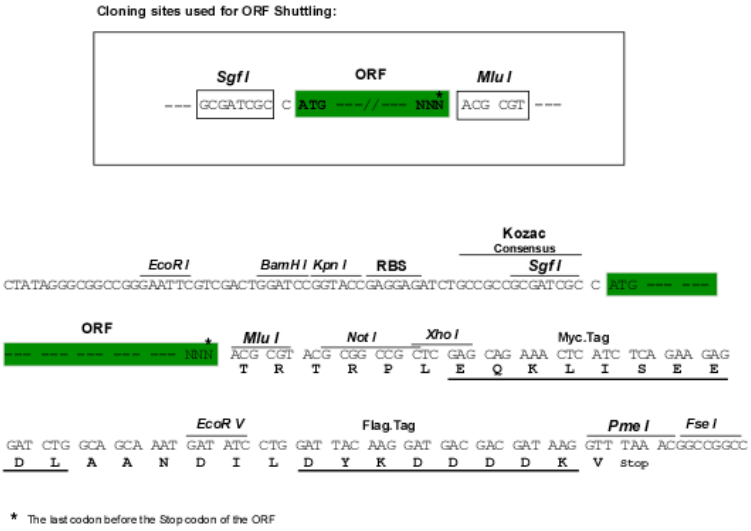
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6312_h05.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004113

ORF Size: 543 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

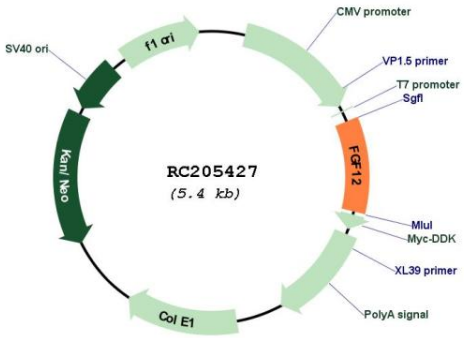
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

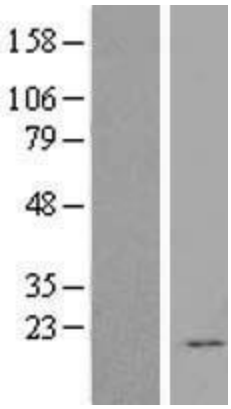
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_004113.6
RefSeq Size:	5408 bp
RefSeq ORF:	546 bp
Locus ID:	2257
UniProt ID:	P61328
Cytogenetics:	3q28-q29
Domains:	FGF
Protein Families:	Secreted Protein
Protein Pathways:	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
MW:	20.5 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 growth factor lacks the N-terminal signal sequence present in most of the FGF family members, but it contains clusters of basic residues that have been demonstrated to act as a nuclear localization signal. When transfected into mammalian cells, this protein accumulated in the nucleus, but was not secreted. The specific function of this gene has not yet been determined. [provided by RefSeq, Dec 2019]

Product images:



Circular map for RC205427



Western blot validation of overexpression lysate (Cat# [LY418206]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205427 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).