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Product datasheet for RC222564

Gastrokine 1 (GKN1) (NM_019617) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gastrokine 1 (GKN1) (NM_019617) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gastrokine 1
Synonyms:	AMP18; BRICD1; CA11; FOV; foveolin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC222564 representing NM_019617
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTTGCCTACTCCTCTGTCCACTGCTTTCGTGAAGACAAGATGAAGTTCACAATTGTCTTTGCTGGAC
TTCTTGGAGTCTTTCTAGCTCCTGCCCTAGCTAACTATAATATCAACGTCAATGATGACAACAACAATGC
TGGAAGTGGGCAGCAGTCAGTGAGTGTCAACAATGAACACAATGTGGCCAATGTTGACAATAACAACGGA
TGGGACTCCTGGAATTCCATCTGGGATTATGGAAATGGCTTTGCTGCAACCAGACTCTTTCAAAAGAAGA
CATGCATTGTGCACAAAATGAACAAGGAAGTCATGCCCTCCATTCAATCCCTTGATGCACTGGTCAAGGA
AAAGAAGCTTCAGGGTAAGGGACCAGGAGGACCACCTCCCAAGGGCCTGATGTACTCAGTCAACCCAAAC
AAAGTCGATGACCTGAGCAAGTTCGGAAAAAACATTGCAAACATGTGTCGTGGGATTCCAACATACATGG
CTGAGGAGATGCAAGAGGCAAGCCTGTTTTTTTACTCAGGAACGTGCTACACGACCAGTGTACTATGGAT
TGTGGACATTTCCTTCTGTGGAGACACGGTGGAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222564 representing NM_019617
Red=Cloning site Green=Tags(s)

MLAYSSVHCFREDKMKFTIVFAGLLGVFLAPALANYNINVNDDNNNAGSGQQSVSVNNEHNVANVDNNNG
WDSWNSIWDYGNGFAATRLFQKKTCIVHKMNKEVMPSIQSLDALVKEKKLQGKGPGGPPPKGLMYSVNPN
KVDDLSKFGKNIANMCRGIPTYMAEEMQEASLFFYSGTCYTTSVLWIVDISFCGDTVEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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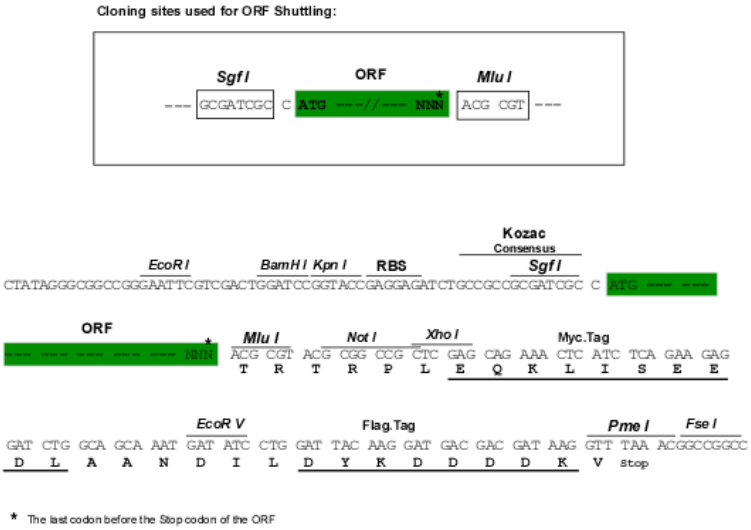
Chromatograms: https://cdn.origene.com/chromatograms/mk8010_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019617

ORF Size: 597 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_019617.3, NP_062563.3

RefSeq Size: 820 bp

RefSeq ORF: 558 bp

Locus ID: 56287

UniProt ID: Q9NS71

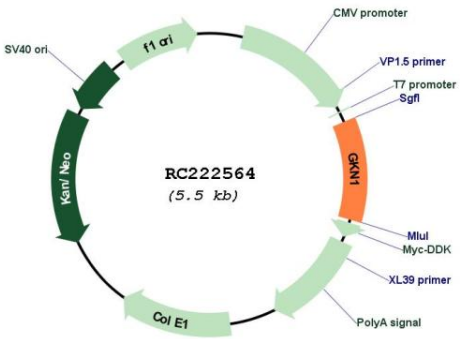
Cytogenetics: 2p13.3

Protein Families: Secreted Protein, Transmembrane

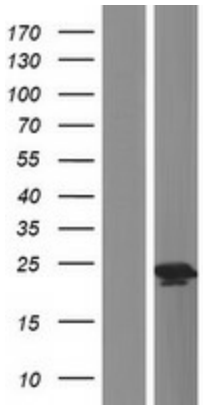
MW: 21.8 kDa

Gene Summary: The protein encoded by this gene is found to be down-regulated in human gastric cancer tissue as compared to normal gastric mucosa. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC222564



Western blot validation of overexpression lysate (Cat# [LY412704]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222564 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).