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Product datasheet for MR205129

Klf17 (NM_029416) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klf17 (NM_029416) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klf17
Synonyms:	7420700M05Rik; AA420409; AU043468; C85123; D4Ertd561e; Gzf; Zfp393
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205129 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCAGGACAATAAGGAACAGGCTATGCACCAGCCTCCCATGGATAATAAGATGTTGGTGCCAGTGT
CGAATGTGCCCGTGTCTTCTGGAAACAGCGGATTTCATCAGCCACCAGCCACTCAATACTTACCAGAGAT
GATGAGGTCCTATATGGCATCAGCTGAGGAGCTCAGATGCAATGAGAGAGAATGGGAATCACAGCTCATT
AGGTCGCTGCCTGAGCATGGTGTGAGGTGCCCCTCCCAGCTGGCTCCTATACCTTTCCAGAATTATTGTC
AGAGATCGATTGGGAGGGGATCCCACGTGATGCCAGTTGGAAGTTCAGGTACTCTGGGAGTGACCATTTC
CTTCAGTGAGAATCTAATGCCTCAGGGTGGCCTGCCAAGTTCCCGTGGAGTCTCAGTGATGGCCCATAGC
GGTGCCCCAGCAATGCCTTATCCTATGCCTCCAACAGTACCTGCCACCACGGGCTCTTTAAAACATGGAA
TATTGTTGGTCCCAGGCATGGCTTCCGCTGGGACCCATGCTGTGGCTCCGTTTATGGATCAGATGTTGCA
CTCCATAAATCCCTGCAATCCTGAGATGCTCCCAGCTAGGTTCCAGCAATTGCTACCTTTAGACTCCCAA
GATTCACTTGTGACTGAGTCAAATACCCAGGAAGAACCTTTCGTACGTGAGCCGCCCACACCTGCTCCAG
AGGGGGCAGAGAGCCCCAGTACTTCAAGAGGGGCAACCAGGAGACAGTCCCCAGTTTCAAGGCCTTATGT
CTGCACATATAACAGCTGTGGAAAATCTTATACCAAGCGCTCTCACCTTGTGAGTCACCAACGCAAACAC
ACAGGTGTGAAGCCCTTCGCATGTGACTGGAACGGATGTACGTGGAAGTTCTTCCGCTCTGATGAGCTTG
GACGACACAAACGGATTCATACCAGATACCGACCACATAAATGCGATGAGTGTGATCGAGAGTTCATGAG
ATCTGACCATCTCAGGCAGCACAAAAGAACGCATCTGCCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

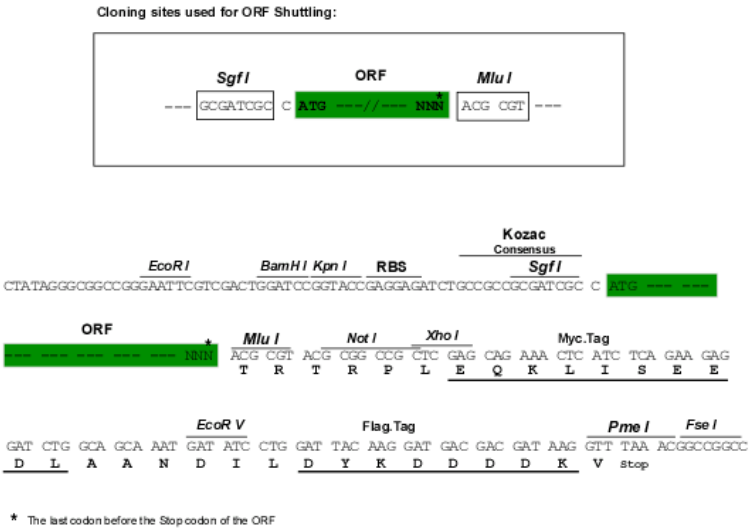
>MR205129 protein sequence
Red=Cloning site Green=Tags(s)

MEQDNKEQAMHQPPMDNKMLVPVSNVPVSSGNSGFHQPPATQYLPEMMRSYMASAEELRCNEREWESQLI
RSLPEHGVRCPSQLAPIPFQNYCQRSIGRGSHVMPVGSSGTLGVTISFSENLMPQGGLPSSRGVSVMAHS
GAPAMPYPMPPTVPATTGSLKHGILLVPGMASAGTHAVAPFMDQMLHSINPCNPEMLPARFQQLLPLDSQ
DSLVTESNTQEEPFVREPPTPAPEGAESPSTSRGATRRQSPVSRPYVCTYNSCGKSYTKRSHLVSHQRKH
TGVKPFACDWNGCTWKFFRSDELGRHKRIHTRYRPHKCDECDREFMRSDHLRQHKRTHLPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029416

ORF Size: 1026 bp

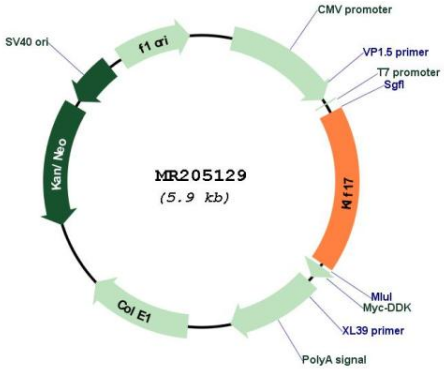
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_029416.1, NM_029416.2, NP_083692.2
RefSeq Size:	3595 bp
RefSeq ORF:	1026 bp
Locus ID:	75753
UniProt ID:	Q8CFA7
Cytogenetics:	4 53.46 cM
MW:	38 kDa
Gene Summary:	Transcription repressor that binds to the promoter of target genes and prevents their expression. Acts as a negative regulator of epithelial-mesenchymal transition and metastasis in breast cancer. Specifically binds the 5'-CACCC-3' sequence in the promoter of ID1, a key metastasis regulator in breast cancer, and repress its expression. May be a germ cell-specific transcription factor that plays important roles in spermatid differentiation and oocyte development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205129