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Product datasheet for MR224470

Jazf1 (NM_173406) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Jazf1 (NM_173406) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Jazf1
Synonyms:	AI591476; C820002C15; Jaz1; Tip27
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR224470 representing NM_173406 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACAGGCATCGCCGCCGCCTCCTTCTTCTCCAACACCTGCCGCTTCGGGGGCTGCGGACTCCACTTCC CCACGCTGGCCGACCTCATCGAGCACATCGAGGACAACCACATCGACACAGACCCACGTGTTTTAGAAAA GCAGGAGCTGCAGCAGCCGACCTATGTGGCCCTCAGTTACATCAATAGATTCATGACAGATGCTGCACGC CGAGAACAGGAATCTCTGAAGAAGAAGATTCAGCCGAAGCTTTCACTAACCCTGTCCAGCTCCGTGTCTC GAGGGAATGTGTCCACTCCACCTCGACATAGCAGTGGCAGCCTTACTCCCCCTGTGACCCCGCCCATCAC GCCCTCCTCTTCATTCCGCAGCAGCACTCCAACAGGCAGCGAGTATGATGAGGAAGAGGTGGACTATGAG GAGTCAGACAGTGATGAGTCCTGGACCACAGAGAGCGCCATCAGCTCTGAAGCAATCCTCAGCTCCATGT GCATGAATGGAGGGGAAGAGAAGCCTTTCGCCTGCCCAGTTCCAGGGTGTAAAAAGAGATACAAGAATGT GAATGGCATAAAGTACCATGCTAAGAATGGTCACCGAACACAGATTCGCGTCCGCAAACCATTCAAATGC CGGTGTGGGAAGAGTTACAAGACAGCTCAGGGCCTGCGGCACCACACAATCAATTTCCATCCCCCAGTGT CTGCCGAGATGATCAGGAAGATGCAGCAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

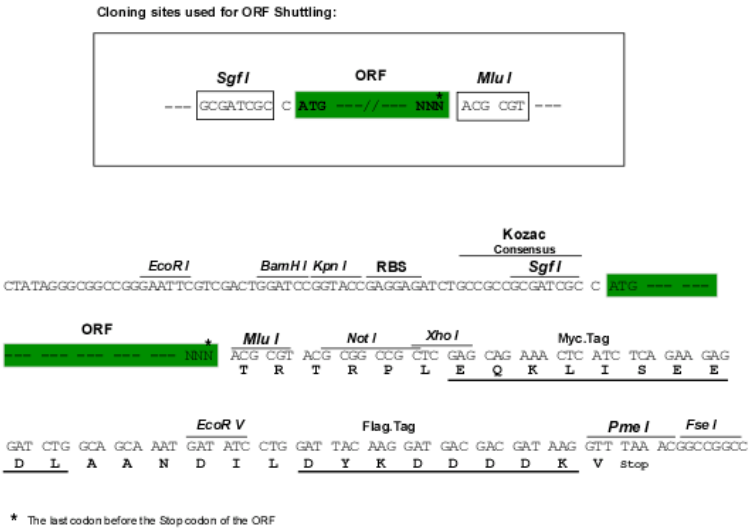
>MR224470 representing NM_173406
Red=Cloning site Green=Tags(s)

MTGIAAASFFSNTCRFGGCGLHFPTLADLIEHIEDNHIDTDPRVLEKQELQQPTYVALSYINRFMTDAAR
REQESLKKKIQPKLSLTLSSSVSRGNVSTPPRHSSGSLTPPVTPPITPSSSFRSSTPTGSEYDEEEVDYE
ESDSDESWTTESAISSEAILSSMCMNGGEEKPFACPVPGCKKRYKNVNGIKYHAKNGHRTQIRVRKPFKC
RCGKSYKTAQGLRHHTINFHPPVSAEMIRKMQQ

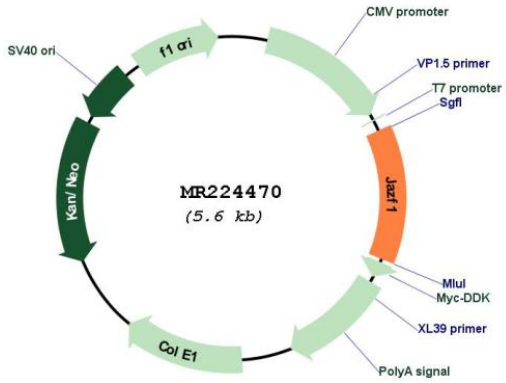
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_173406

ORF Size: 729 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_173406.3, NP_775582.2

RefSeq Size: 2925 bp

RefSeq ORF: 732 bp

Locus ID: 231986

UniProt ID: Q80ZQ5

Cytogenetics: 6 25.74 cM

MW: 27.5 kDa

Gene Summary: Acts as a transcriptional corepressor of orphan nuclear receptor NR2C2 (By similarity). Inhibits expression of the gluconeogenesis enzyme PCK2 through inhibition of NR2C2 activity (PubMed:24380856). Also involved in transcriptional activation of NAMPT by promoting expression of PPARA and PPARD (PubMed:24930994). Plays a role in lipid metabolism by suppressing lipogenesis, increasing lipolysis and decreasing lipid accumulation in adipose tissue (PubMed:24380856, PubMed:25614086). Plays a role in glucose homeostasis by improving glucose metabolism and insulin sensitivity (PubMed:25614086, PubMed:24380856). [UniProtKB/Swiss-Prot Function]