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Product datasheet for RR202971

Cactin (NM_001081447) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cactin (NM_001081447) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cactin
Synonyms:	RGD1563634
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR202971 representing NM_001081447
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCGGCGCGGGCCGCCAAATGGGTTCGCACTCTCGCTCGCGCTCACGATCTGCGGGTCGTAGGAGTC
GGAAGCAGCGGAGTAGGAGTAGAAGCTGCAGCAGGAGCCGGAGCCGAAGCCGGAGCCGGAGCCGGAGCCG
GAGCCATGGGGGGAGCGGCCGAAGGCGACGGGAACATGAGCGGCGGCGCGAACGCAAACGGCGCAGTCGA
GGGCGCAGGTCAGATTCGGAAGGAAACCGTGTGCAGAAGTCTAGGAGGCGAAGCCGGAGCCTTCGGCCAC
CCCGATGGCACTCACAGGACCGGTCCTCACACTCTGACTCGGGTGAGGAGCAAGCACAGGGCTCCCGAGC
CCGGAAGGGTCACAGGCATTCGTGGTCCCCAGGGTCATCAGCATCTAGCTCTGACTCCCCAAGACGCTCC
CGGAGTCCTGGAGTAGCTGCCCTGGCCGCGAGTCAGCAGCAGAGCCTTCAGGAACGGCTGCGGCTTCGTG
AGGAGCGAAAGCAGCAAGAAGAGCTGCTCAAGGCCTTCGAGACACCCGAGGAGAAGCGTGCCCGGCGACT
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AAAAAGGCATCGGTCACCTGGAGGAAAAGGAGCTGAAGGAACGTAACAAGAGGATCCAGGAGGAGAACCG
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CTGGAACTGTTGCAACGGGAGAAGGAGGCAGAGCACTTTAAGACCTGGGAGGAGCAGGAGGACAGCTTCC
ACTTGCGGCAGGCCAAGCTTCGTTCCAAGATCCGAATCCGAGACGGGCGGGCCAAGCCCATTGACTTGCT
GGCCAAGTACATCAGTGCAGAGGACGATGACCTGGCAGTGGAGATGCATGAACCTTACACCTTCCTCAAC
GGCCTCACGGTGGCAGACATGGAGGACCTGCTAGAGGACATCCAGGTGTACATGGAGCTGGAGCAGGGCA
AGAACGTGGACTTCTGGCGAGACATGACAACCATCACAGAGGATGAGATTGCCAAGCTCCGCAAGCTGGA
GGCCTCGGGCAAGGGCCCAGGTGAGCGCCGTGAGGGGGTCAACGCCTCGGTCAGCTCTGACGTGCAGTCC
GTCTTCAAGGGAAAGACGTACAACCAGCTGCAGGTCATCTTCCAGGGCATCGAAGGCAAGATCCGTGCCG
GCGGCCCCAACCTCGACATGGGCTACTGGGAGAGCCTGCTGCAGCAGTTGCGCGCGCACATGGCCAGGGC
CAGGCTCCGTGAGCGCCACCAAGATGTCCTTAGACAGAAGCTGTTCAAACTGAAGCAGGAGCAGGGTGTG
GAGAGTGAGCCGCTGTTTCCCATCCTCAAGTCAGAGCCCACAGCCACTCACAGCCCTGAACCTGAGGAAC
GGCCTCCCAGCCCTGGGACTTCAGTGGACCCCGTGGAACCCGAGGAGACCACAGCAGCAGGCGAGGCAGA
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GCTGGCCGCTACAGCCCACGACTGCTCACCGCGCACGAGTTGCCTTTGGACGCGCATGTGCTGGAGCCGC
ATGAGGACCTGCAGCGCCTGCAGCTGTCTCGCCAGCAGCTTCAGGCTACAGGTGACGCGAGCGAGAGTGC
TGAGGACATCTTCTTCCGGCGTGCGAGGGAGGGCATGGGGCAGGATGAGGCACAGTTCAGCGTGGAGATG
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TGCACACAGGCTTTGAATGGAACAAATATAACCAGACACATTATGACTTTGACAACCCTCCACCCAAGAT
CGTGCAGGGCTACAAATTTAACATCTTCTACCCGGACCTCATCCGCAAACGTGCCACACCAGAGTACTTC
CTGGAGGCCTGCGCTGACAACCGGGACTTTGCCATCCTGCGTTTCCACGCAGGCCCGCCCTACGAGGACA
TCGCCTTCAAGATCGTCAGTCGAGAATGGGAGTACTCGCACCGCCATGGCTTCCGCTGCCAGTTTGCCAA
TGGAATCTTCCAGCTCTGGTTCCACTTCAAGCGCTACCGCTACCGCCGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

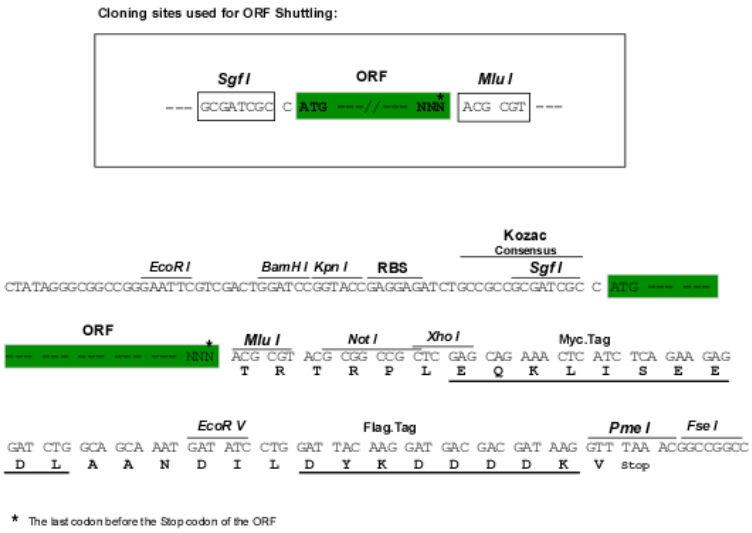
>RR202971 representing NM_001081447
Red=Cloning site Green=Tags(s)

MRGAGRQMGSHSRSRSRSAGRRSRKQRSRSRSCSRSRSRSRSRSRSRSHGGSGRRRREHERRRERKRRSR
GRRSDSEGNRVQKSRRRSRSLRPPRWHSQDRSSHSDSGEEQAQGSRARKGHRHSWSPGSSASSSDSPRRS
RSPGVAALAASQQQSLQERLRLREERKQQEELLKAFETPEEKRARRLAKKEAKERKKREKMGWGEEYMGY
TNTDNPFGDNNLLGTFIWNKALEKKGIGHLEEKELKERNKRIQEENRLELQKVKQLRLERE REKAMREQE
LELLQREKEAEHFKTWEEQEDSFHLRQAKLRSKIRIRDGRAKPIDLLAKYISAEDDDLAVEMHEPYTFLN
GLTVADMEDLLEDIQVYMELEQGKNVDFWRDMTTITEDEIAKLRKLEASGKGPGERREGVNASVSSDVQS
VFKGKTYNQLQVIFQGIEGKIRAGGPNLDMGYWESLLQQLRAHMARARLRERHQDVLRQKLFKLKQEQGV
ESEPLFPILKSEPTATHSPEPEERPPSPGTSVDPVEPEETTAAGEAEGEADGEAVLMEEDLIQQSLADYD
AGRYSPRLLTAHELPLDAHVLEPHEDLQRLQLSRQQLQATGDASESAEDIFFRRAREGMGQDEAQFSVEM
PLGGRAYLWADKYRPRKPRFFNRVHTGFEWNKYNQTHYDFDNPPPKIVQGYKFNIFYPDLIRKRATPEYF
LEACADNRDFAILRFHAGPPYEDIAFKIVSREWEYSHRHGFRCQFANGIFQLWFHFKRYRYRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081447

ORF Size: 2289 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_001081447.1, NP_001074916.1

RefSeq Size: 2595 bp

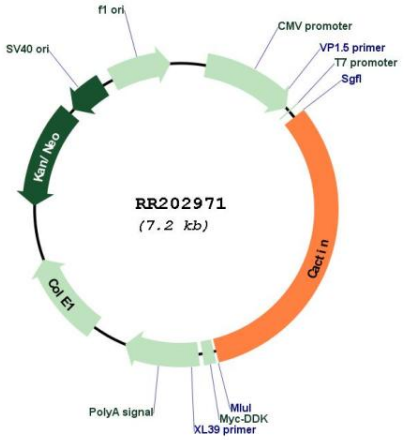
RefSeq ORF: 2292 bp

Locus ID: 500790

Cytogenetics: 7q11

MW: 89.3 kDa

Product images:



Circular map for RR202971