

Product datasheet for **RR207558**

Ctcf (NM_031824) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctcf (NM_031824) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctcf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RR207558 representing NM_031824
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGGTGAGCGGTTGAAGCCATTGTGGAAGAGTCTGAAACTTTCATTAAAGGAAAGGAAAGAAAGA
 CTTACCAGAGACCCGGGAAGGGGGCCAGGAAGAAGATGCTTGCCACCTACCCCAGAACCAGACAGACGG
 GGTGAGGTGGTCCAGGATGTCAACAGTAGCGTACAGATGGTAATGATGGAACAGCTGGACCCTACCCTT
 CTCCAAATGAAGACTGAAGTAATGGAGGGGACAGTGGCTCCTGAAGCAGAAGCTGCACTGGACGATAACC
 AAATCATAACCCTGCAGGTTGTAACATGGAGGAACAGCCATTAATATAGGAGAACTTCAGCTTGCCA
 AGTACCTGTTCTGTGACTGTACCTGTTGCTACTACGTACAGTAGAAGAAGTTCAGGGGGCTTATGAGAA
 GAAGTGTCTAAAGAGGGCCTTGCAGAAAGTGAACCGATGATATGCACACCTTACCTTTACCTGAAGGAT
 TTCAGGTGGTAAAAGTGGGGCCAATGGAGAAGTGGAGACACTAGAGCAGGGGGAGCTTCTCTCAGGA
 AGACCCTAGCTGGCAAAAAGACCAGACTATCAGCCACCAGCCAAAAAACAAGAAAACAAAAAGAGT
 AAACCTCGTTACACAGAGGAGGGCAAGACGTGGATGTGTCTGTGTATGATTTTGAAGGAAACAGCAGG
 AAGGACTGCTGTCTGAGTTAATGCAGAGAAAAGTGGTTGGTAATATGAAGCCTCCGAAGCCAACAAAAAT
 TAAAAAAAAGGTGTAAGAAAAACATTCAGTGTGAGCTTTGAGTTACACGTGTCCACGGCGTTCAAAT
 TTGGATCGTCACATGAAAAGCCACACTGATGAGAGACCACACAAGTGCCATCTCTGTGGCAGAGCATTCA
 GAACAGTAACCCCTCTGAGGAATCATCTTAACACACACACAGGTAAGTTCGCTCACAAAGTCCCGGACTG
 CGCATGGCTTTTGTGACCAGTGGAGAGTTGGTGGCCATCGTCGTTATAAACACACTCATGAGAAAACCA
 TTTAAGTGTCCATGTGTGATTATGCCAGTGTAGAAGTCAAGCAAAATTAACGACACATTCGCTCTCATA
 CTGGAGAGCGCCCGTCCAGTGCAGTTTGTGCAGTTATGCCAGCAGGGACACATACAAGTGAAGGCA
 TATGAGAACCCATTACAGGTGAAAAACCTTATGAATGTTATATTTGTCATGCTCGGTTTACCCAGAGTGGT
 ACCATGAAGATGCACATTTTACAGAAGCACACAGAAAATGTGGCCAAATTCATTGTCCCCACTGTGACA
 CTGTATAGCCCGAAAAAGTGATTTGGGTGTCCACTTGAGAAAAGCAGCATTCTATATTGAGCAGGGCAA
 AAAATGTCGCTACTGTGTGCTGTGTTTATGAGAGATATGCTCTTATCCAGCATCAAAAATCACACAAA
 AATGAGAAGCGCTTCAAGTGCAGCAGTGTGATTATGCTTGTAGACAGGAGAGGCACATGATCATGCACA
 AGCGCACTCACACGGGGAGAAGCCTTATGCCTGCAGCCACTGCGACAAGACCTTCCGCCAGAAACAGCT
 CCTTGACATGCATTTCAAGCGCTATCATGATCCCAACTTTGTCCCGCTGCCTTTGTCTGTTCTAAGTGT
 GGGAAAACATTACACGCCGGAACACAATGGCGAGACACGCAGATAACTGTGCTGGTCCAGACGGTGTAG
 AAGGGGAAAAATGGAGGAGAGACAAAGAAGAGCAACGAGGAAGAAAAAGAAAGATGCGGTTAAAAAAGA
 AGACTCCTCTGACAGTGAATGCTGAGCCGGATCTCGATGACAATGAGGAGGAGGAGGAGCCTGTGTGA
 GAAATTGAACCTGAGCCAGAGCCGAGCCGAGCCTCAGCCACAGCCGAGCCGAGCCTGTGGCCCGAG
 CCCACCACCTGCCAAGAAGAGAAGAGGGGACCTCCTGGAAGAACAACCAACCAACAGAACAGCCAGCC
 AACAGCCATCATCCAGGTTGAAGACCAGAATACAGGTGCAATTGAGAACATTATAGTTGAAGTCAAAAA
 GAGCCAGATGCCGAGCCTGCGGAGGGGGAAGAGGAGGAGCTCAGGCAGCACCCGAGACGCCCCCAACG
 GAGACCTACGCCTGAGATGATTCTCAGCATGATGGACCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR207558 representing NM_031824
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MEGEAVEAIVEESETFIK GKERKTYQRRREGGQEE DACHLPQNQTDGGEVVQDVNSSVQVMMEQLDPTL
 LQMKTEVMEGTVAPEAAVDDTQIITLQVNMEEQPINIGELQLVQVPVPTVPVATTSVEELQGAYEN
 EVSKEGLAESEPMICHTLPLPEGFQVVKVGANGEVETLEQGELPPQEDPSWQKDPDYQPPAKKTKKTKKS
 KLRYTEEGKDVDVSVYDFEEEEQQEGLLSEVNAEKVVGNMPPKPTKIKKKGVKKTFCQELCSYTCPRRSN
 LDRHMKSHTDERPHKCHLCGRAFRTVTLRLNHLNTHGTTRPHKCPDCDMAFVTSGELVRHRRYKHTHEKP
 FKCSMCDYASVEVSKLKRHIRSHTGERPFQCSLCSYASRDYKLRHRMTHSGEKPYECYICHTARFTQSG
 TMKMHILQKHTENVAKFHCPHCDTVIARKSDLGVHLRKHQHSYIEQGKCKRYCDAVFHERYALIQHQKSHK
 NEKRFKCDQCDYACRQERHMIMHKRTHTEKPYACSHCDKTFRQKQLDMHFKRYHDPNFVPAAFVCSKC
 GKTFTRRNTMARHADNCAGPDGVEGENGETKSKRGRKRMRSKKEDSSDSENAEPDLDDNEEEEEPAV
 EIEPEPEPQPQPQPQPVPAPPPAKKRRGRPPGRTNQPKNQPTAI IQVEDQNTGAIENIIVEVKK
 EPDAEPAEGEEEAQAAPADAPNGDLTPMILSMMDR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_031824

ORF Size: 2211 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_031824.1](#), [NP_114012.1](#)

RefSeq Size: 3708 bp

RefSeq ORF: 2214 bp

Locus ID: 83726

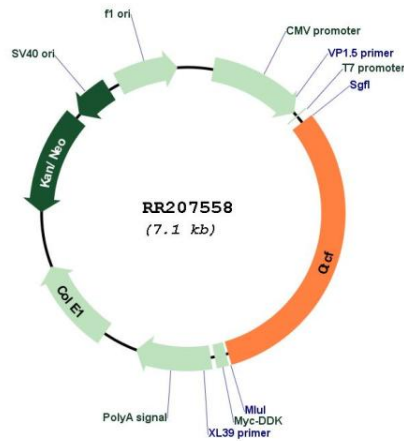
UniProt ID: [Q9R1D1](#)

Cytogenetics: 19q12

MW: 83.9 kDa

Gene Summary: binds to and protects the H19 differentially methylated domain from de novo methylation during oocyte growth and is involved in normal preimplantation development [RGD, Feb 2006]

Product images:



Circular map for RR207558