

## Product datasheet for **RN207558**

### **Ctcf (NM\_031824) Rat Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >RN207558 representing NM\_031824  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGGTGAGCGGTTGAAGCCATTGTGGAAGAGTCTGAAACTTTCATTAAAGGAAAGGAAAGAAAGA  
 CTTACCAGAGACGCCGGAAGGGGGCCAGGAAGAAGATGCTTGCCACCTACCCCAGAACCAGACAGACGG  
 GGGTGAGGTGGTCCAGGATGTCAACAGTAGCGTACAGATGGTAATGATGGAACAGCTGGACCCTACCCTT  
 CTCCAAATGAAGACTGAAGTAATGGAGGGGACAGTGGCTCCTGAAGCAGAAGCTGCACTGGACGATACCC  
 AAATCATAACCCCTGCAGGTTGTAACATGGAGGAACAGCCATTAATATAGGAGAACTTCAGCTTGCCA  
 AGTACCTGTTCTGTGACTGTACCTGTTGCTACTACGTACAGTAGAAGAAGTTCAGGGGGCTTATGAGAA  
 GAAGTGTCTAAAGAGGGCCTTGCAGAAAGTGAACCGATGATATGCACACCTTACCTTTACCTGAAGGAT  
 TTCAGGTGGTAAAAGTGGGGCCAATGGAGAAGTGGAGACACTAGAGCAGGGGGAGCTTCTCTCAGGA  
 AGACCCTAGCTGGCAAAAAGACCAGACTATCAGCCACCAGCCAAAAAACAAGAAAACAAAAAGAGT  
 AAACCTCGTTACACAGAGGAGGGCAAAGACGTGGATGTGTCTGTGTATGATTTTGAAGGAAACAGCAGG  
 AAGGACTGCTGTCTGAGTTAATGCAGAGAAAGTGGTTGGTAATATGAAGCCTCCGAAGCCAACAAAAAT  
 TAAAAAAAAGGTGTAAGAAAAACATTCAGTGTGAGCTTTGAGTTACACGTGTCCACGGCGTTCAAAT  
 TTGGATCGTCACATGAAAAGCCACACTGATGAGAGACCACACAAGTGCCATCTCTGTGGCAGAGCATTCA  
 GAACAGTAACCCCTCTGAGGAATCATCTTAACACACACACAGGACTCGTCTCACAAAGTCCCCGACTG  
 CGCATGGCTTTTGTGACCAGTGGAGAGTTGGTGGCCATCGTCGTTATAAACACACTCATGAGAAAACCA  
 TTTAAGTGTCCATGTGTGATTATGCCAGTGTAGAAGTCAAGCAAAATTAACGACACATTCGCTCTCATA  
 CTGGAGAGCGCCCGTCCAGTGCAGTTTGTGCAGTTATGCCAGCAGGGACACATACAAGTGAAGGGA  
 TATGAGAACCCATTACAGGTGAAAAACCTTATGAATGTTATATTTGTCATGCTCGGTTTACCAGAGTGGT  
 ACCATGAAGATGCACATTTTACAGAAGCACAGAAAAATGTGGCCAAATTCATTGTCCCCACTGTGACA  
 CTGTATAGCCCGAAAAAGTGATTTGGGTGTCCACTTGAGAAAAGCAGCATTCTATATTGAGCAGGGCAA  
 AAAATGTCGCTACTGTGTGCTGTGTTTATGAGAGATATGCTCTTATCCAGCATCAAAAATCACACAAA  
 AATGAGAAGCGCTTCAAGTGCAGCAGTGTGATTATGCTTGTAGACAGGAGAGGCACATGATCATGCACA  
 AGCGCACTCACACGGGGAGAAGCCTTATGCCTGCAGCCACTGCGACAAGACCTTCGCCAGAAACAGCT  
 CCTTGACATGCATTTCAAGCGCTATCATGATCCCAACTTTGTCCCGCTGCCTTTGTCTGTTCTAAGTGT  
 GGGAAAACATTACACGCCGGAACACAATGGCGAGACACGCAGATAACTGTGCTGGTCCAGACGGGTGAG  
 AAGGGGAAAAATGGAGGAGAGACAAAGAAGGACAAACGAGGAAGAAAAAGAAAGATGCGGTTAAAAAGA  
 AGACTCCTCTGACAGTGAATGCTGAGCCGGATCTCGATGACAATGAGGAGGAGGAGGAGCCTGCTGTA  
 GAAATTGAACCTGAGCCAGAGCCGAGCCGAGCCTCAGCCACAGCCGAGCCGAGCCTGTGGCCCCAG  
 CCCACCACCTGCCAAGAAGAGAAGAGGGGACCTCCTGGAAGAACAACCAACCAACAGAACAGCCAGCC  
 AACAGCCATCATCCAGGTTGAAGACCAGAATACAGGTGCAATTGAGAACATTATAGTTGAAGTCAAAAA  
 GAGCCAGATGCCGAGCCTGCGGAGGGGGAAGAGGAGGAGGCTCAGGCAGCACCCGAGACGCCCCCAACG  
 GAGACCTACGCCTGAGATGATTCTCAGCATGATGGACCGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_031824

**Insert Size:** 2214 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_031824.1, NP_114012.1</u>
<b>RefSeq Size:</b>	3708 bp
<b>RefSeq ORF:</b>	2214 bp
<b>Locus ID:</b>	83726
<b>UniProt ID:</b>	<u>Q9R1D1</u>
<b>Cytogenetics:</b>	19q12
<b>Gene Summary:</b>	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]