

## Product datasheet for **RN215850**

### **Chtf8 (NM\_001194951) Rat Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chtf8 (NM_001194951) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Chtf8
Synonyms:	Ctf8; RGD1306894
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN215850 representing NM_001194951 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTGCAAATTGTTATTTCCAGTACGGGGCTGAAGGCCTGGCAGAATGGGTGCTGATGGAGCTACAGG  
 GGGAGATCGAGGCTCGCTACAGCACCGGATTAGCTGGAACCTCCTGGGAGACCTACATTACACCACTGA  
 GGAATCCCTGTGCTGATCGTGGGCATCATCCTGTATGGGAAATCATCCACCTGGAGAAACCTTTT  
 GCAGTCCTTGCAAACACACTCCTGGGAAGCAGGACTGTGATGAGCTTGGTCGAGAGACTGGCACCCAGT  
 ACTTGGTGACAGCACTCATCAAAAACAAGATCCTTTTCAAACCTCGCCCCAAGCCTATTATCACCAACGT  
 CCCCAAGAAAGT**ATGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001194951
Insert Size:	366 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).


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<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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_001194951.1, NP_001181880.1</u>
<b>RefSeq Size:</b>	3051 bp
<b>RefSeq ORF:</b>	366 bp
<b>Locus ID:</b>	364996
<b>UniProt ID:</b>	<u>P0C6T1</u>
<b>Cytogenetics:</b>	19q12
<b>Gene Summary:</b>	Chromosome cohesion factor involved in sister chromatid cohesion and fidelity of chromosome transmission. Component of one of the cell nuclear antigen loader complexes, CTF18-replication factor C (CTF18-RFC), which consists of CTF18, CTF8, DCC1, RFC2, RFC3, RFC4 and RFC5. The CTF18-RFC complex binds to single-stranded and primed DNAs and has weak ATPase activity that is stimulated the presence of primed DNA, replication protein A (RPA) and proliferating cell nuclear antigen (PCNA). The CTF18-RFC complex catalyzes the ATP-dependent loading of PCNA onto primed and gapped DNA. It also interacts with and stimulates POLH, which is suggestive of a protein network that coordinates DNA repair, recombination and chromosome cohesion reactions with replication fork progression (By similarity).[UniProtKB/Swiss-Prot Function]