

## Product datasheet for RN203353

### Cxxc5 (NM\_001007628) Rat Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Cxxc5 (NM\_001007628) Rat Untagged Clone  
 Tag: Tag Free  
 Symbol: Cxxc5  
 Synonyms: MGC94398  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >RN203353 representing NM\_001007628  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGTCGAGCCTCGGCGGTGGCTCCAGGACGCCGGTGGCAGTAGCAGCAGCAGTAACACCAGTAGCAGCA  
 GTGGCAGTGGCCAAAAGGCAGGAGGAACAGACAAAAGTGCCACGGTGGCTGCCACGGCACCGCCCTCCGT  
 GGCAGACGATGCCCGCCCTGAGCGTCGGAACAAGAGTGGAATCATCAGTGAACCCCTCAACAAGAGC  
 CTGCGTCGCTCCCGCCACTCTCTCACTACTCCTCTTTGGTAGCAGTGGTGGCGCCGGAAGCATGATGG  
 GAGGGGAGTCTGCTGACAAGGCTGCCGCAGCCGAGCCTCCCTATTGGCCAACGGTCATGACCTGGCTGC  
 GGCCATGGCGGTGGACAAAAGCAACCCTACCTCAAAGCACAAAAGTGGTGTGTGGCCAGCCTGCTAAGC  
 AAGGCAGAGCGGGCCACAGAGCTGGCAGCCGAGGGACAGCTGACACTGCAGCAGTTCCGACAGTCCACGG  
 AGATGCTAAAGCGAGTGGTGCAGGAACCTGCCACTGATGAGCGAGGCGGGTGGCCGCTGCCGACAT  
 GGAGGCTGTGGCCGGCGCCGAAGCCCTCAATGGCCAGTCCGACTCCCTTACCTGGGCGCTTTCCCATC  
 AATCCAGGCTCTTCATCATGACCCAGCCGGTGTGTTCTGGCTGAGAGTGCCTGCACATGGCTGGCC  
 TGGCCAGTACCCATGCAGGGAGAGCTGGCTTCCATCAGCTCGGGCAAGAAGAAGCGAAACGCTG  
 CGGCATGTGTGCCCTGCCGGCGGCATCAACTGCGAGCAGTGCAGCAGTTGTAGGAACCGAAAGACT  
 GGCCATCAGATTTGCAAATTCAGAAAGTGTGAAGAACTCAAAAAGAAGCCTTCCGCTGCTCTGGAGAAGG  
 TGATGCTTCCGTCGGGAGCTGCCTCCGGTGGTTTCAGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_001007628  
 Insert Size: 951 bp



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<b>OTI Disclaimer:</b>	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>	<a href="#">NM_001007628.2</a> , <a href="#">NP_001007629.1</a>
<b>RefSeq Size:</b>	2081 bp
<b>RefSeq ORF:</b>	951 bp
<b>Locus ID:</b>	291670
<b>UniProt ID:</b>	<a href="#">Q5XIQ3</a>
<b>Cytogenetics:</b>	18p11
<b>Gene Summary:</b>	May indirectly participate in activation of the NF-kappa-B and MAPK pathways. Required for DNA damage-induced ATM phosphorylation, p53 activation and cell cycle arrest. Involved in myelopoiesis (By similarity). Acts as a mediator of BMP4-mediated modulation of canonical Wnt signaling activity in neural stem cells. Binds to the oxygen responsive element of COX4I2 and represses its transcription under hypoxia conditions (4% oxygen), as well as normoxia conditions (20% oxygen). May repress COX4I2 transactivation induced by CHCHD2 and RBPJ. [UniProtKB/Swiss-Prot Function]