

Product datasheet for **RR203353**

Cxxc5 (NM_001007628) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Cxxc5 (NM_001007628) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Cxxc5
 Synonyms: MGC94398
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR203353 representing NM_001007628
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGAGCCTCGGCGGTGGCTCCAGGACGCCGGTGGCAGTAGCAGCAGCAGTAACACCAGTAGCAGCA
 GTGGCAGTGGCCAAAAGGCAGGAGGAACAGACAAAAGTCCACGGTGGCTGCCACGGCACCGCCCTCCGT
 GGCAGACGATGCCCCGCCCTGAGCGTCGGAACAAGAGTGGAATCATCAGTGAACCCCTCAACAAGAGC
 CTGCGTCGCTCCCGCCACTCTCTCACTACTCCTCTTTGGTAGCAGTGGTGGCGCCGGAAGCATGATGG
 GAGGGGAGTCTGCTGACAAGGCTGCCGCAGCCGACGCTCCCTATTGGCCAACGGTCATGACCTGGCTGC
 GGCCATGGCGGTGGACAAAAGCAACCCTACCTCAAAGCACAAAAGTGGTGTGTGGCCAGCCTGCTAAGC
 AAGGCAGAGCGGGCCACAGAGCTGGCAGCCGAGGGACAGCTGACACTGCAGCAGTTTCGCACAGTCCACGG
 AGATGCTAAAGCGAGTGGTGCAGGAACCTGCCACTGATGAGCGAGGCGGGTGGCCGGCTGCCCGACAT
 GGAGGCTGTGGCCGGCGCCGAAGCCCTCAATGGCCAGTCCGACTCCCTTACCTGGGCGCTTTCCCCATC
 AATCCAGGCCTTTCATCATGACCCAGCCGGTGTGTTCTGGCTGAGAGTGCCTGCACATGGCTGGCC
 TGGCCAGTACCCATGCAGGGAGAGCTGGCTTCCATCAGCTCGGGCAAGAAGAAGCGAAACGCTG
 CGGCATGTGTGCCCTGCCGGCGGCATCAACTGCGAGCAGTGCAGCAGTTGTAGGAACCGAAAGACT
 GGCCATCAGATTTGCAAATTCAGAAAGTGTGAAGAACTCAAAAAGAAGCCTTCCGCTGCTCTGGAGAAGG
 TGATGCTTCCGTCGGGAGCTGCCTCCGGTGGTTTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203353 representing NM_001007628
 Red=Cloning site Green=Tags(s)

MSSLGGGSQDAGGSSSSNTSSSSGSGQKAGGTDKATVAATAPASVADDAPPPERRNKSGLIIEPLNKS
 LRRSRPLSHYSSFGSSGGAGSMGGESADKAAAAAASLLANGHDLAAAMAVDKSNPTSKHKSGAVASLLS
 KAERATELAAEQQLTLQQFAQSTEMLRVVQEHLPMLSEAGALPDMEAVAGAEALNGQSDFPYLGAFPI
 NPGLFIMTPAGVFLAESALHMAGLAEYPMQELASAISSGKKRKRRCGMCAPCRRRRINCEQCSSCRNRKT
 GHQICKFRKCEELKKKPSAALEKVMLPSGAAFRWFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

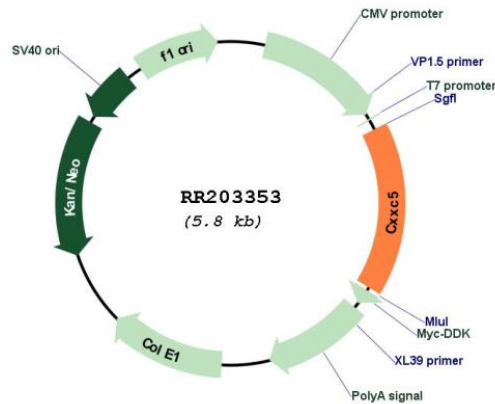
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001007628

ORF Size: 948 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:	<ol style="list-style-type: none">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_001007628.2 , NP_001007629.1
RefSeq Size:	2081 bp
RefSeq ORF:	951 bp
Locus ID:	291670
UniProt ID:	Q5XIQ3
Cytogenetics:	18p11
MW:	32.6 kDa
Gene Summary:	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]