

## Product datasheet for **MG204551**

### Cxxc5 (NM\_133687) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cxxc5 (NM_133687) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cxxc5
Synonyms:	4930415K17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204551 representing NM_133687 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGAGCCTCGGCGGTGGCTCCAGGACGCCGGTGGCAGTAGCAGCAGCAGTAACACCAATAGCAGCA  
GTGGCAGTGGCCAAAAGGCAGGAGGAACAGACAAAAGTACCGGGTGGCCGCCACCACGGCGCCGACCTC  
CGTGGCAGACGATGCCCCACCCCTGAGCGTCGGAACAAGAGCGGTATCATCAGTGAACCCCTCAACAAG  
AGCCTGCGGCGCTCCCGACCACTCTCTCACTACTCTTCCCTTTGGTAGCAGTGGTGGCGGCGGAAGCATGA  
TGGGGGTGGAGTCTGCTGACAAGGCAGCGGCAGCCGAGCCTCCCTATTGGCCAATGGTCATGACCTGGC  
TGGCCCATGGCAGTGGACAAAAGCAACCTACCTCAAAGCACAAAAGTGGTGTGTGGCCAGCCTGCTG  
AGCAAGGCAGAGAGGGCCACAGAGCTGGCAGCTGAGGGACAGCTGACGCTGCAGCAGTTTGCACAGTCCA  
CAGAGATGCTAAAGCGCGTGGTGCAGGAACACCTGCCACTGATGAGTGAAGCCGGTGGCCGCTGCCTGA  
CATGGAGGCTGTGGCCGGCGCCGAAGCCCTCAATGGCCAGTCCGACTTCCCTATCTGGGCGCTTTCCCC  
ATCAATCCAGGCCTTTCATCATGACCCAGCTGGCGTGTTCCTGGTGAAGTGCAGTGCACATGGCTG  
GCCTGGCCGAGTACCCATGCAGGGAGAGCTGGCTTCCGCCATCAGCTCAGGCAAGAAGAAGCGAAACG  
CTGCGGCATGTGTGCCCTGCCGGCGGCATCAACTGTGAGCAGTGCAGCAGTTGTAGGAACCGAAAG  
ACTGGCCATCAGATTTGCAAATTCAGAAAGTGTGAAGAAGTCAAAAAGAAGCCTCCGCTGCTCTGGAGA  
AGGTGATGCTTCCGTGGGAGCCGCCTCCGGTGGTTTCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204551 representing NM\_133687  
 Red=Cloning site Green=Tags(s)

MSSLGGGSQDAGGSSSSNTNSSSGSQKAGGTDKSTAVAATTAPTSVADDAPPERRNKSIGIISEPLNK  
 SLRRSRPLSHYSSFGSSGGGSMGVESADKAAAAASLLANGHDLAAAMAVDKSNPTSKHKSGAVASLL  
 SKAERATELAAEQQLTLQQFAQSTEMLKRVVQEHPLMSEAGAGLPDMEAVAGAEALNGQSDFPYLGAFP  
 INPGLFIMTPAGVFLAESALHMAGLAEYPMQGELASAISSGKKRKRKRCGMCAPCRRRRINCEQCSSCRNRK  
 TGHQICKFRKCEELKKKPSAALEKVMLPSGAARWFQ

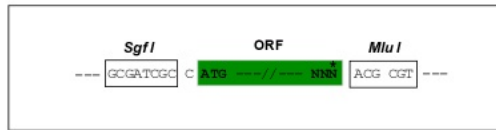
TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2290\\_g10.zip](https://cdn.origene.com/chromatograms/ja2290_g10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_133687

**ORF Size:** 951 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_133687.3](#)

**RefSeq Size:** 2311 bp

**RefSeq ORF:** 954 bp

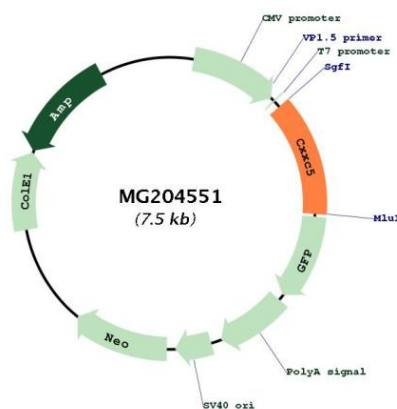
**Locus ID:** 67393

**UniProt ID:** [Q91WA4](#)

**Cytogenetics:** 18 B2

**Gene Summary:** May indirectly participate in activation of the NF-kappa-B and MAPK pathways. Acts as a mediator of BMP4-mediated modulation of canonical Wnt signaling activity in neural stem cells. Required for DNA damage-induced ATM phosphorylation, p53 activation and cell cycle arrest. Involved in myelopoiesis (By similarity). 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 (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG204551