

Product datasheet for **RR209096**

Cep55 (NM_001025646) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cep55 (NM_001025646) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cep55
Synonyms:	RGD1305340
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR209096 representing NM_001025646
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTCCAGAAGTCCCAAAGATTTAATTAAGCAAAATGGGGATCGAGGCCTAGCAGCTCCAAGTCAG
 AACTGCGCTAGAGAAATTAAGGGAGAAATTGCAGCCTTCAAAACATCCCTGGATGAAATCACCAATGG
 GAAAGGAAAAGTGGCCAATAAAGACAGAAGCAAATCTTGAGAGAAAATCAAGTTCTGAAGCCGAGAGA
 GAAAAGAATGTTTATTACCTCATGGAGAAGGACAAAGAAATACAGAGACTCAAAGACCACCTAAGGTCAA
 GATATAGCTCTTCGTCATTGCTCGAGCAGCTGGAGGAGAAAACCAAGGAGTGTGAGAAGAAGCAGCAGTT
 GCTGGAGTCCTTATCCAGAGAGACAGATATCCTGAAAAAGCAGTTGTCTGCCACGACGAAAAGACTTTCC
 GAACCTGAAAGCAAAGCCAGTACACTCCACCTATCGCAGAGCGTGCCTGCAAACCTGTTCAACTCATCAA
 TGAATAGTATTTCATGAAAAGGAAATGCAGCTGAAAGATGCTCTGGAGAAAAATCAGCAGTGGCTTGTGTA
 CGACCAGCAGCGAGAAGCCTACGTTAAAGGGCTTTTAGCAAAGATCTTTGAGCTTAAAAAGAGAACAGAG
 ACTGCCGCTGTTCCCTCCCACAGCAGATGAAAAAGACTGAATCAGAAGGTTATCTTCAAGAGGAGAAGC
 AAAAATATGATCATCTCTTGAAAAATGCCAAAAAGATCTTGAAGTTGAGCGACAAAACCGTAACTCAGTT
 GCGTTTAGAACTGGATGAATTTGAAAGGAAATATGAAGAACTCAAAAAGAGTTGAAGATTTAAACCAG
 CTGTTGAGTTCTCAGCGCAAGGCAGACATACAGCACCTGGAAGAGGACAAGCATAAGACGGAGAAAAATCC
 AGAAGCTCAGGGAAGAGAGCAGTGTCTTCAAGGGGAACTGGAAGAGGAGAGGAAGAAGTCTGAAGAGCT
 TTTATCTCAGGTCGAATTTCTCTACGATTCTCTGTTAAGCACCAAGAGGAGCAGAGCAGGTTGGCTCTG
 CTGGAACGGCAGATGCAGGCATGTACTTAGACTTTGAAAATGAAAACCTCGACCGCCAGAATATGCAGC
 ATCAGCTGTATGTGATTCTTAAGGAGCTCCGAAAAGCAAAGTCAAATAACACAGTTGGAATCCTTGAA
 GCAGCTACATGGATTTACCTTACAGAGCAGCCGTTCCCACTCCAGGGAGAGCCTGAAAACAGAGTGAAA
 GCTACCTCACCTAAGAGTCCCACTGCTGTTCTCAACGAAAGCCTAGTGGATGTCCCAAGTGCAGCGTAC
 AGTACCCAGCCACCGAACATCGAGACCTGCTTGTCCATGTGGAATACTGCATGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR209096 representing NM_001025646
 Red=Cloning site Green=Tags(s)

MSSRSPKDLIKSKWGRPSSSSKSDTALEKFKGEIAAFKTSLEDEITNGKGVANKDRSKLLEKIQVLEAER
 EKNVYYLMEKDKEIQRLKDHLSRYSSSSLLEQLLEEKTECEKKQQLLESLSRETDILKKQLSATTKRLS
 ELESKASTLHLSQSVPANCFNSSMNSIHEKEMQLKDALEKNQQLVYDQQREAYVKGLLAKIFELEKRT
 TAAASLPQMKKTESEGYLQEEKQKYDHLLENAKKDLEVERQTVTQLRLELDEFRRKYEETQKEVEDLNQ
 LLSQRKADIQHLEEDKHKTEKIQKLREESSVFKGKLEERKKSEELLQVVRILYDSLKKHQEQSRVAL
 LERQMQLDFENEKLDQRNMQHQLYVILKELRKAKSQITQLESKQLHGFTFTEQPFPLQGEPEPENVK
 ATSPKSPTAVLNESLVECPKCSVQYPATEHRDLLVHVEYCMK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

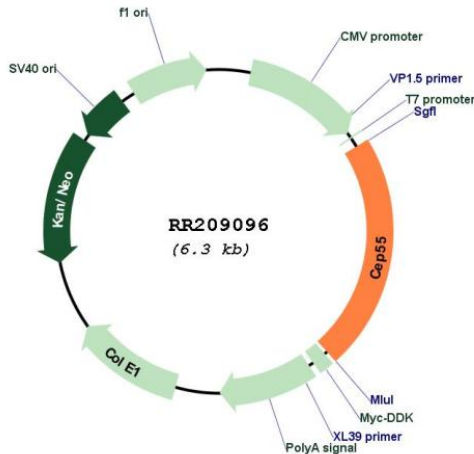
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025646

ORF Size: 1386 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:	<u>NM_001025646.1, NP_001020817.1</u>
RefSeq Size:	2481 bp
RefSeq ORF:	1389 bp
Locus ID:	294074
UniProt ID:	<u>Q4V7C8</u>
Cytogenetics:	1q53
MW:	54 kDa
Gene Summary:	Plays a role in mitotic exit and cytokinesis. Recruits PDCD6IP and TSG101 to midbody during cytokinesis. Required for successful completion of cytokinesis. Not required for microtubule nucleation. Plays a role in the development of the brain and kidney.[UniProtKB/Swiss-Prot Function]