

Product datasheet for **RN204487**

Cep44 (NM_001037181) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cep44 (NM_001037181) Rat Untagged Clone
Tag: Tag Free
Symbol: Cep44
Synonyms: RGD1308517
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >RN204487 representing NM_001037181
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAACAGGTGACCTAAAAAGAAGTTTGAGGAAGCTAGAACAAGTTCTTCGTTCACTAAATTACCCTA
 ATGAGGTGGATTATGTCGGCCTGATGAAGGGAGACACAGCAGCATCCTTGCCCATCATCAGCTATTCTCT
 TACCTCACTCCCCTCATGTAGCAGAACTTCTGATGGAATCCAATATAGAGCTCATAGCGAAGAATGAT
 GTGCGCTTACAGATACTGTCTATAAGCTTCTTCGTGATCAGTTTGATTATAAACCAATTTTGACAAAA
 AGCAGTTTATACAGTCTGGATTTGCTGAATGGAATTTGAAATTGTCTGTGATATATTAATTGTGTGAT
 GAAAAACACAAGAAATTGATTGGCCTTGACAAGAATTCATCATGCCAAAGGAAGAAGAGCATTTCTGAG
 AAGCCAGAACCTTGTCAAGTCGTGAGAAGTGCCTGCAGAGGCGGTTGGCATTGACGTCACGGGCAAGT
 TTATGACATCAGGAAAGAAGAAGGCTGTGGTGATCCGTCACCTGTATACTGAAGAGAACGTTGGTGTTC
 TGAAGGGACAGTAACCTCAACAGAAGTGAGTGAAGGCTGCGATGAGTTGGAAGAGCAGAGTTCTGACATA
 CGCATTCTGAGGCGCAGGCCCTGAGGTCAAGGCTGAGCTGCAAGATATGTGTGATAATCCTGAGCTTA
 CCGCACTCAGATCGCACTGGCTGAATGTCAGGAAAAGCTGAAGAAGCTGACTTGGATAGAGAAACGGCT
 TGAGTGTTTGGAAGCTACAACAAAAGGGAAAGTGATGGTCGATGAGAAGGCTGGAATAATATTCTAAGT
 CGAGTGACTCTTCTCGAAACAGAGATGCTTCTGTCTAAAAGAATGAATCTGTAGGCCTAACACAACA
 GTGAAGACTCTGAGTCAGTTAGTGGTGTGGATGTTGTGCCCTATGATAAAAAATACAGTGTGAGGGGCC
 GGCCAGTACCTGTCACTCATCTGGCTACAGTACAGTATCGTCGGCAACAGTGCCAGGAGCTCCACTATT
 AATTACTGTGGCTTGAACAATTTTTAGAGGAAACAATATGCAGAAAATGGAAAGGATGAAAAAATGT
 TTGAAGAGACCGCAGAGTTACTGAAATGCTCCAGTCGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001037181
Insert Size:	1161 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).
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_001037181.1</u> , <u>NP_001032258.1</u>
RefSeq Size:	1589 bp
RefSeq ORF:	1161 bp
Locus ID:	290722
UniProt ID:	<u>Q3B7T8</u>
Cytogenetics:	16p11
Gene Summary:	Centriole-enriched microtubule-binding protein involved in centriole biogenesis. In collaboration with CEP295 and POC1B, is required for the centriole-to-centrosome conversion by ensuring the formation of bona fide centriole wall. Functions as a linker component that maintains centrosome cohesion. Associates with CROCC and regulates its stability and localization to the centrosome.[UniProtKB/Swiss-Prot Function]