

Product datasheet for **MC223095**

BC033915 (BC063268) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: BC033915 (BC063268) Mouse Untagged Clone
Tag: Tag Free
Symbol: BC033915
Synonyms: 5730525O22Rik; 9030204A07Rik; AI447252; AI846254; AI849445; mKIAA0999; Qsk; SIK-3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >BC063268
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGCTCGCATCGGCTACTACGAGATCGACCGACCATCGGCAAGGGCAACTTCGCTGTGGTCAAGC
 GGGCCACGCACCTCGTCACCAAGGCCAAGTTGCTATTAATAATCATAGATAAGAGCCAGCTGGATGAAGA
 AAATTGAAGAAGATTTCCGGGAGGTTACAGATAATGAAGATGCTTGGCCATCCACACATCATCAGACTC
 TACCAGGTCATGGAGACAGAGCGCATGATTTACCTGGTGACAGAATACGCTAGCGGAGGGGAGATATTTG
 ACCACTTGGTAGCCCATGGAAGAATGGCAGAGAAGGAAGCTCGACGGAAGTTCAAACAGATCGTCAACGC
 GGTGTATTTTTGTCACTGTCCGAATATCGTTTCATCGTGATTTAAAAGCCGAAAACCTACTTCTGGACGCC
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CCCCACTGTGCACCATGACACCAGCAGTCCAGCAGTTACCCCTGTGGATGAGGAGAGCTCGGATGGGGA
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CGTCAGCACTACAGCAGGCCCTGCTATCTCTACACCGCCAGACTATCCCCGACACCAGCAGGTTCCCCA
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GAATGTGGGGTGAGCCTGGGCCACGAGCATCCAGGCTGGGTGATGGCAACCAGCATCTCAACTCTCTC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAAGTTTAA

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- Restriction Sites:** SgfI-MluI
- ACCN:** BC063268
- Insert Size:** 3936 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:

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: [BC063268](#), [AAH63268](#)

RefSeq Size: 6099 bp

RefSeq ORF: 3935 bp

Locus ID: 70661

Cytogenetics: 9 A5.2

Gene Summary: Positive regulator of mTOR signaling that functions by triggering the degradation of DEPTOR, an mTOR inhibitor (By similarity). Required for chondrocyte hypertrophy during skeletogenesis (PubMed:22318228). Negatively regulates cAMP signaling pathway possibly by acting on CRTC2/TORC2 and CRTC3/TORC3 (By similarity). Prevents HDAC4 translocation to the nucleus (PubMed:22318228).[UniProtKB/Swiss-Prot Function]