

## Product datasheet for MR211911

### BC033915 (BC063268) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BC033915 (BC063268) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BC033915
Synonyms:	5730525O22Rik; 9030204A07Rik; AI447252; AI846254; AI849445; mKIAA0999; Qsk; SIK-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211911 representing BC063268 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCCGCTCGCATCGGCTACTACGAGATCGACCCACCATCGGCAAGGGCAACTTCGCTGTGGTCAAGC  
GGGCCACGCACCTCGTCACCAAGGCCAAGTTGCTATTAATAATCATAGATAAGAGCCAGCTGGATGAAGA  
AAACTTGAAGAAGATTTCCGGGAGTTTCAGATAATGAAGATGCTTTGCCATCCACATCATCAGACTC  
TACCAGGTCATGGAGACAGAGCGCATGATTTACCTGGTGACAGAATACGCTAGCGGAGGGGAGATATTTG  
ACCACTTGGTAGCCCATGGAAGAATGGCAGAGAAGGAAGCTCGACGGAAGTTCAAACAGATCGTCACAGC  
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GGTGTGGCAGCCCTCCCTATGCCGCCCCAGAGCTCTTGAAGGGAAGGAATATGATGGGCCAAAAGTGG  
CATATGGAGCCTTGGAGTTGTCTCTATGTGCTGGTGTGTGGCGCCCTGCCGTTTGATGGGAGCACACTG  
CAGAACTGCGGGCCCGGTGCTGAGTGGCAAGTTCGCATCCCGTCTTTATGTCCACAGAGTGTGAGC  
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AGAGCCTCAGATGGAGGCGCCAACATCCAACCTGCATGCCAGCAGCTGCTCAAGCGCCACGGGGACCGT  
CCCCACTTGTACCATGACACCAGCAGTGCCAGCAGTTACCCCTGTGGATGAGGAGAGCTCGGATGGGGA  
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ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR211911 representing BC063268  
 Red=Cloning site Green=Tags(s)

MAARIGYYEIDRTIGKGNFAVVKRATHLVTKAKVAIKIIDKSQLDEENLKKIFREYQIMKMLCHPHIIRL  
 YQVMETERMIYL VTEYASGGEIFDHLVAHGRMAEKEARRKFKQIVTAVYFCHCRNIVHRDLKAENLLD  
 NLNIKIADFGFSNLF TPGQLLKTWCGSPPYAAPELFEGKEYDGPVKVDIWSLGVVLVYVCGALPFDG  
 STLQNLRARVLSGKFRIPFFMSTECEHLIRHMLVLDPNKRLSMEQICRHKWMKLGADPNFDRLIAECQQL  
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 KMGNSSSIKQLQEQEQLQKMYGGQVDERTLEKTQQQHMLYQQEQHHQILQQQIQDSICPPQSPPLQVA  
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 KVPPLDQFPFPFSAQQQPPHYTTSALQQALLSPTPPDYPRHQVPHILQGLLSPRHSLTGHSDIRLPPA  
 EFAQLIKRQQQHRQQQQQQQQQYHELFRRHMNQDAVSLAPSLGGQNMTEHQALSYQNADSYHRHHTSP  
 QHILQIRAQDCISQGPSPTPTHGYAHQPPLMHSESMEECLCEGLKEGFPDKSSSTLTGKCHNSPLLLCT  
 SGPGDPEPLLTGTVSQARELGIHPYGHQPTATTFSRNKVPVSRESVLGNCLERSSPGQAMELPHNGLGYPV  
 RPLVSEHLRSRTLQRHHTIQNSDDAYVQLDTPGMSLVAGKALSSARMSDAVLSQSSLMGSSQQFQDEEDE  
 ECGVSLGHEHPGLGDNQHLNSSRYPATCVTDIMLSHKHPEVSFSMEQAGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9033\\_b03.zip](https://cdn.origene.com/chromatograms/mm9033_b03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

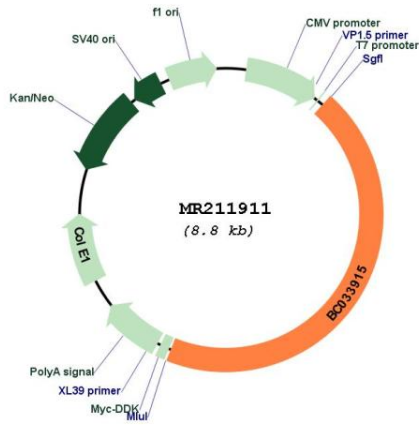


**ACCN:** BC063268

**ORF Size:** 3933 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC063268.1</a>
<b>RefSeq Size:</b>	6099 bp
<b>RefSeq ORF:</b>	3935 bp
<b>Locus ID:</b>	70661
<b>Cytogenetics:</b>	9 A5.2
<b>MW:</b>	223.6 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR211911