

## Product datasheet for **SC104664**

### DRAM2 (AK092961) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DRAM2 (AK092961) Human Untagged Clone
Tag:	Tag Free
Symbol:	DRAM2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK092961, the custom clone sequence may differ by one or more nucleotides

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GGTATGGGCTCATTATATATGTTTGTTCAGACCATCCTTCTACCAAATGCAGCCCAAATCCATGGCA
AACAGTCTTCTGGATCAGACTGTTGTTGGTTATCTGGTGGAGTAAGTGCAGTACTAGCAGTACTCCTTCA
CTGTACAATGTGGCTACACTTGGAAAGGAATTGAATGACAAGATTTAAGTAAACACTATTGGTGCAGTAT
AAGAAGCCTTTTTGTCTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTAGGAGAGATTCTTAGGTTAC
AATCCTAAACTAAAGAATTTGAAATATGGAATTCAGATTGTACATAGTGCCTCAGTAATTGAGCTAGGAA
CAAAAATGTTGAGCCTGATCATACTCACTTCAAAGAAATGAGGGATGAGTAAATGCCCTTCTGAGAACC
ATTATCTAGTTAAAGATTATGATAGAAGTCTAATTTTCTGAGCAAAGAGGTGGGGTTTACTGTGAGAA
CCATTTTGTGTGACCCTCTGAGCAGCACATTTTATGTTTACAGTACCCTGCTGTGTAACATTAAGTC
TTTAAGAAAATGGGTTTAGACCTTAGCAATAAATGTGTGAGTAATCCTTTTAGACTGTAAGTGATTTTT
GTTCTCTGAGATCGTCTCTGAGATTCTCCTTGACTTATGTTTTATAGTGTGACTTGCTCATCAGTTT
TGCACAGTGGCAATTTGGGACTGATTTAGAACAGAACTCCATTGGAACCCCGAGGACAAAGTAAGAAC
TTACAGTCTATAAACTTAGTTTTATATTAAGATGGTTATTTTGATTGATCTTGATATGTTTTTCATTTT
ATCAGTAAACAATGAAAGTCTTCTGGTAGAATAATCAGTCTGTATTAATAATTTTTCTTGATATGGTAG
GGTTTATGTAGAACCCTCCATATTTCTCCTGTCACTGTGATCTGTAGATATTGTCAAAAATATGAAGAGCA
TTGCGATGGCAGAAGAGTTTTCTGAGAAATGACTCCCTAAATATGGGTATAGTATATAATATAGCCAA
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TGGAAATTGATTAGGACTCTGCATTTAGGATTCATATAGTGGATATCTGAATGTAGATATAACATCTG
GGACTCTGAGAATAGAGGAAGAGGAACATATACTAAAGAATAAAATGAGTTCATCTGTTTTACAAAACCA
CTTGGTGTGTTTTATATAAGAATTAGCCCCAAATGGGCATGTTGTGAAAATGAATGAATGAAATAAT
TTACTAGATTTTCCCAATTGTAACCCATATATTATTTAATATCGCAAACACAGCACTTACTAAGTTTATT
CTGAGCATTGTTAACTTTTCTAGTTGCATATTGAATCTTATGGCTTTGGGTAAAGGCAATAGTAATT
TCCCGATTGTAGAGTAAAAATGATCCTGTTCTATCTTAGCTATTTAATTGGAAATTTTATTCGCTCCAG
TGAAACAAATAGAGTGTCAATTTAGGAGGATTTCTAATGCTGGCTCTTAAATTCTAGAGATATTATGC
CTGGAAGTCAAGGTTGATTTTCAGAAGCTCCATTTTTATAAGAATTGTGTGTTTTTTATTTGAAAC
ATAGTATATAGATCGTTAAATGAAATTTACAAAACATTTCTTTTTTCCCATCACTCAGGTTATGTG
CTTCACATGATCACTACTGCAGCAGAATGGTCTATGTCATTTCTTCTTTGGTTTTTCTGACTTACA
TTCGTGATTTTCCAGTAAGAAGGCACAGTATTAGATTTATTCAGTCACTTCTTCTCTAGTCCAGGA
AGGTAGACTAAGAGAACCTTCCATAGGCAACTCTCCCGCCTTTTTGAAAATTAAGTGTGTTGATTTGGT
ATCATAAACAAGTGTAACTTTTTCAGGTGAATTGTTTCTGTGTTTAAAGAAAGTGTGATTGCTAGCA
AGATTTAGCCTTGAAAATGGGGCTATAAAATAAATTTTCAGAAATCTTACATAGAATTTGTTATCGATTC
TGTGTACTTTTACATAGGTCATTTCTCAACATTTAGTTTTACTGATTTCTAGTAGAAACCAAGAAAACA
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TAAAACAGCTGTCTCACTACCATTAGAATTGATTTACATTCATAATCACAAAGGTAGCCTATAGAACATAT
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TTACGGGTGGAAGCCAATTTACATGGATTAACCCTCTATGACACTGCACCTTGCCCTATTAAACAATGAAC
GAACACGGCTACTTTCCAGAGATTTTGTGAAAAGGATAAAAATTTTTCTGTAATGATTATGATTTCTCAGG
GATTGGGAAAGGTTACAGAAGTTGCTTATTCTCTCTGAAAATTTCAACCACTTAATCAAGGCTGACA
GTAACACTGATGAATGCTGATAATCAGGAAACATGAAAGAAGCCATTTGATAGATTATTCTAAAGGATAT
CATCAAGAAGACTATTA AAAACACCTATGCCTATACTTTTTTATCTCAGAAAATAAAGTCAAAGACTAT
GAT
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for AK092961 unedited</p> <pre>GGGGGGCGGGNNNCCNNCCNNNNCCNNCCNNCCCCCCCCCCCCCGCCCTGTCCAAA TTTGTNATACGACTCACTATAGGCGGCCGCAATTCGCACCAGCTCACTCAAAGAAATG AGGATGAGTAAATGCCCTTTCTGAGAACCATTATCTAGTTAAAGATTATGATAGAAGTGC TAATTTTCTGAGCAAAGAGGTGGGGTTGACTGTGAGAACCATTTGTTGTGACCCTCTG AGCAGCACATTTTGTGTTTACAGTATCACTGCTGTGTAACATTAAGCTTTAAGAAAAAT GGGTTTAGACCTTAGCAATAAATGTGTGAGTAATCCTTTTAGACTGTAAGTGATTTTGTG TTCTCTGAGATCGTCTCTGAGATTCTTCCCTTGACTTATGTTTTTATAGTGCTGACTTGCT CATCAGTTTTGCACAGTGGAATTTTGGGACTGATTTAGAACAGAACTCCATTGGAACC CCGAGGACAAAGTAAGAACTTACAGTCTATAAACTTAGTTTTATATAAAGATGGTTATT TTGATTGATCTTGATATGTTTTTCATTTTCATCAGTAACAATGAAAGTCTTCTGGTAGAAT AATCAGTCTGTATTAATAATTTTTCTTGATATGGTAGGGTTTATGTAGAACCTTCCAT ATTCTCCTGTACCTGTGATCTGTAGATATTGTCAAAAATGAAGAGCATTGCGATGGCA GAAGAGTTTTCTGAGAAATTGACTNNCCCTAATGTGGGTATAGTATATAATATAGCCAAC CGAGAATCATTTATGTTTGAATACTTGTCTTGAATTGAAAAGACATCTTCTCCACTTT NTGNTATCTGAAATTGATTATGGACTCTGCATTTAGATTCAATATAGTGGATATCTGA ATGTAGATATAACCATCTGGACTCTGAGATAGAGGAAGAGGACCTATACT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for AK092961 unedited</p> <pre>CTTTGGTCCGCTGGCCGATTTTAGGATCTAGTTTTTTTTTTTTTTTTTTTTCATAGTCT TTCGACTTTATTTCTGAGATAAAAAAGTTAGGCATAGGTGTTTTTAATAGTCTTCTTGA TGATATCCTTTAGAATAATCTATCAAATGGCTTCTTTCATGTTTCTGATTATCAGCATT CATCAGTGTTACTGTGAGCCTTGATTAAGTGGTTGAAAATTTAGAGAAGAATAAGCAAC TTCTGTGAACCTTTCCCAATCCCTGAGAATCATAATCATTACAGAAATATTTTATCCTT TCATCAAATATCTCTGGAAAGTAGCCGTGTTTCGTTTATTGTTAATAGGGCAAGGTGCAGT GTCATAGAGGGTTAATCCATGTAATTTGGCTTCCACCCGTAAGAAAATTTTCTGGAACAG AAAAGAAAATATATAGAAGTTTGCTCCTTAAAGAGAGATCACTCCTTCAATATGTTT TATAGGCTACCTGTGATTATGAATGTAATCAATCTAATGGTAGTGAGACAGCTGTTT TACTGTCAAAGGTATCCTCTTTGTACCCATTAATACTGGAAAAACCAAGCTTCTCAAT CATAAAAGTCCCTGTTTTTTCTTTGGTTTCTACTAAGAATCAGTAAAACCTAANNTGTGAG AATGACCTATGNTAAAGTACACAGAATCGATAACCAATCTATNGTAGAATTTTCTGAAT TTATTTATAGCCCCATTTTCAAGCTAAATCTTGCTAGCATACACTACTTCTTTAACACAG AAACATTCACCTGANAAGTACATCACTTGTATGATACCAAATCACAACAGTAATTTTCA AAAGGCGGGAGNAGTGCCTATGGNAAAAGTCTCTAGTCTACCTTCTGGNACTAGAGAAG GAGTCTNGACTGATAATCTATACTGTGCCTTC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK092961
<b>Insert Size:</b>	2500 bp
<b>OTI Disclaimer:</b>	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).
<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).

**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:** [AK092961.1](#)

**RefSeq Size:** 2733 bp

**RefSeq ORF:** 2733 bp

**Locus ID:** 128338

**Cytogenetics:** 1p13.3

**Protein Families:** Transmembrane

**Gene Summary:** The protein encoded by this gene binds microtubule-associated protein 1 light chain 3 and is required for autophagy. Defects in this gene are a cause of retinal dystrophy. In addition, two microRNAs (microRNA 125b-1 and microRNA 144) can bind to the mRNA of this gene and produce the disease state. [provided by RefSeq, Mar 2017]