

## Product datasheet for **SC107170**

### DRAM2 (NM\_178454) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DRAM2 (NM_178454) Human Untagged Clone
Tag:	Tag Free
Symbol:	DRAM2
Synonyms:	CORD21; PRO180; TMEM77; WWFQ154
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107170 sequence for NM_178454 edited (data generated by NextGen Sequencing)

```
ATGTGGTGGTTTCAGCAAGGCCTCAGTTTCCTTCCTTCAGCCCTTGTAATTTGGACATCT
GCTGCTTTCATATTTTCATACATTACTGCAGTAACACTCCACCATATAGACCCGGCTTTA
CCTTATATCAGTGACACTGGTACAGTAGCTCCAGAAAAATGCTTATTTGGGGCAATGCTA
AATATTGCGGCAGTTTTATGCATTGCTACCATTTATGTTGTTATAAGCAAGTTCATGCT
CTGAGTCTGAAGAGAACGTTATCATCAAATTAACAAGGCTGGCCTTGTACTTGGAATA
CTGAGTTGTTTAGGACTTCTATTGTGGCAAACCTCCAGAAAACAACCCTTTTTGCTGCA
CATGTAAGTGGAGCTGTGCTTACCTTTGGTATGGGCTCATTATATATGTTTGTTCAGACC
ATCCTTTCCTACCAAATGCAGCCAAAAATCCATGGCAAACAAGTCTTCTGGATCAGACTG
TTGTTGGTTATCTGGTGTGGAGTAAGTGCACCTTAGCATGCTGACTTGCTCATCAGTTTTG
CACAGTGGCAATTTGGGACTGATTTAGAACAGAACTCCATTGGAACCCCGAGGACAAA
GGTTATGTGCTTCACATGATCACTACTGCAGCAGAATGGTCTATGTCATTTTCCTTCTTT
GGTTTTTTCCTGACTTACATTTCGTGATTTTCAGAAAATTTCTTTACGGGTGGAAGCCAAT
TTACATGGATTAACCCCTATGACACTGCACCTTGCCCTATTAACAATGAACGAACACGG
CTACTTCCAGAGATTTTGA
```

Clone variation with respect to NM\_178454.4



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_178454 unedited  
 CAGTCACCAATTGTAAACGACTCATATAGGCGGCCTGCGAATCGGCACGAGGTTTGAACG  
 AGCAGCGCCGAGGCGCGCTCCTCGGTGCCGTGAGCGCGCCCCGGGGCCGGCCGGTCTGC  
 TCGGGAGCGCGCCCCGTGGCCAGCCCTGTCTCCTTTTAGCATAGGGGCTTCGGCGCCAG  
 CGGCCAGCGCTAGTCGGTCTGGTAAGGATTTACAAAAGGTGCAGGTATGAGCAGGTCTGA  
 AGACTAACATTTTGTGAAGTTGTAAAACAGAAAACCTGTTAGAAATGTGGTGGTTTCAGC  
 AAGGCCTCAGTTTCCTTCCTTCAGCCCTTGTAAATTTGGACATCTGCTGCTTTCATATTTT  
 CATACATTACTGCAGTAACACTCCACCATATAGACCCGGCTTTACCTTATATCAGTGACA  
 CTGGTACAGTAGCTCCAGAAAAATGCTTATTTGGGGCAATGCTAAATATTGCGGCAGTTT  
 TATGCATTGCTACCATTTATGTTTCGTTATAAGCAAGTTCATGCTCTGAGTCTGAAGAGA  
 ACGTTATCATCAAATTAACAAGGCTGGCCTTGTACTTGGAACTGAGTTGTTTAGGAC  
 TTTCTATTGTGGCAAACCTCCAGAAAACAACCCTTTTGTGCACATGTAAGTGGAGCTG  
 TGCTTACCTTTGGTATGGGCTCATTATATANTGTTTGTTCAGACCATCCTTCTACCAA  
 ATGCAGCCAGAATCCATGGCAAACAAGTCTTCTGGATCAGACTGATGATGGTTATCTGG  
 TGTGGNAGTAGTGCACCTTAGCATGCTGACTTGTTCATCAGTTTNGCACAGTGGCAATAT  
 TGGGACTGATTTAGACAGAACTCATTGGACCCTAGACANGGGTATGTGCTCACATGAGCC  
 TACTGCGCGAGGGCCTGNCAATTTCTTCTGGGTTTTCTGTACATT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_178454 unedited  
 NGGTCTATTATGNACGCGCCGCTTTCTAGATCGGTTTTTTTTTTTTTTTTTTAGGTTAT  
 GACTTTTATTAATCATATCTGCTGTTATCCCAAACCTTCTCATGTTACATGAATACTAAC  
 CCTTGTATATAAAAAATGACTAAAGTAAATTTACCTACAGGTGCCTCTCCTTCAT  
 TGGTGATTAATAATTTACGCCAGAGACTAACTTCATGAAACTACTGCAAGCATGTGTAT  
 GATAGACCAATTAGCTTATTATCTGGCATTGTGGCCAGAAAAAAAAAAATCGTTACCTAC  
 AAAATCTCTTGGGCAACACTTAAGCCATGGAAGAACCACATGAATCCAGGTCTACTTTC  
 CTTTACAGGTAGATTCCAGAACAACAACAAAAATGTAAGACTACAAGAAATGATTTAAT  
 ATGATAAACTCCCATTTCAAAACCCAGTTCTAAAGGATTTACTGACTAATGCTGATTAT  
 TTAGTCATGGAAAATGTCTCTCATAAAAAGTGCTCCTAACAAAACATGATCTACAATAAT  
 TATAAAATGTGAAGGGTTGGGATGTGCAGACTGATTGGTGCAGGTCAGGTTGTTTCTCT  
 AATAAGGTATAAAAAACTATGATATCATAGTCTTTTACTTTATTTTCTGAGATAAAAAA  
 GTATAGGCATAGGTGTTTTAATAGTCTTCTTGATGATATCCTTTAGAANTATCTATCAA  
 ATGGCTTCTTTTCTGTTTCTGATTATCAGCATTATCAGTGTACTGTCAGCCTTGATT  
 AAGTGGGTGAAAATCTCAGAGAAGATAAGGCACTGCTGTGAAACCTTTCCCATCCTCGA  
 GAATCATAATCATTACAGAAATATTTTAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_178454

**Insert Size:**

1900 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [NM\\_178454.2](#), [NP\\_848549.2](#)

**RefSeq Size:** 1761 bp

**RefSeq ORF:** 801 bp

**Locus ID:** 128338

**UniProt ID:** [Q6UX65](#)

**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]  
Transcript Variant: This variant (2), as well as variants 1 and 3-5, encodes isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.