

Product datasheet for **RG213085**

DRAM2 (NM_178454) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DRAM2 (NM_178454) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DRAM2
Synonyms:	CORD21; PRO180; TMEM77; WWFQ154
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213085 representing NM_178454 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGTGGTTTCAGCAAGGCCTCAGTTTCCTTCCTTCAGCCCTTGTAATTTGGACATCTGCTGCTTTCA
TATTTTCATACATTACTGCAGTAACACTCCACCATATAGACCCGGCTTTACCTTATATCAGTGACACTGG
TACAGTAGCTCCAGAAAATGCTTATTTGGGGCAATGCTAAATATTGCGGCAGTTTTATGCATTGCTACC
ATTTATGTTTCGTTATAAGCAAGTTCATGCTCTGAGTCTGAAGAGAACGTTATCATCAAATTAACAAGG
CTGGCCTTGACTTGAATACTGAGTTGTTTAGGGCTTTCTATTGTGGCAAACCTCCAGAAAACAACCTT
TTTTGCTGCACATGTAAGTGGAGCTGTGCTTACCTTTGGTATGGGCTCATTATATATGTTTGTTCAGACC
ATCCTTTCCTACCAAATGCAGCCCAAAATCCATGGCAAACAAGTCTTCTGGATCAGACTGTTGTTGGTTA
TCTGGTGTGGAGTAAGTGCACTTAGCATGCTGACTTGCTCATCAGTTTTGCACAGTGGCAATTTGGGAC
TGATTTAGAACAGAACTCCATTGGAACCCCGAGGACAAAGGTTATGTGCTTCACATGATCACTACTGCA
GCAGAAATGGTCTATGTCATTTTCCTTCTTTGTTTTTCTGACTTACATTCGTGATTTTCAGAAAATTT
CTTTACGGGTGGAAGCCAATTTACATGGATTAACCCTCTATGACACTGCACCTTGCCTATTAACAATGA
ACGAACACGGCTACTTTCCAGAGATATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213085 representing NM_178454
 Red=Cloning site Green=Tags(s)

MWWFQQGLSFLPSALVIWTSAAIFISYITAVTLHHIDPALPYISDTGTVAPEKCLFGAMLNIAAVLCIAT
 IYVRYKQVHALSPEENVIIKLNKAGLVLGILSCLGLSIVANFQKTTLFAAHVSGAVLTFGMGSLYMFVQT
 ILSYQMOPKIHGKQVFWIRLLLVIWCGVSALSMLTCSSVLHSGNFGTDLEQKLHWNPEDKGYVLHMITTA
 AEWSMSFSFFVFLTYIRDQKISLRVEANLHGLTLYDTAPCPINNERTRLLSRDI

TRTRPLE - GFP Tag - V

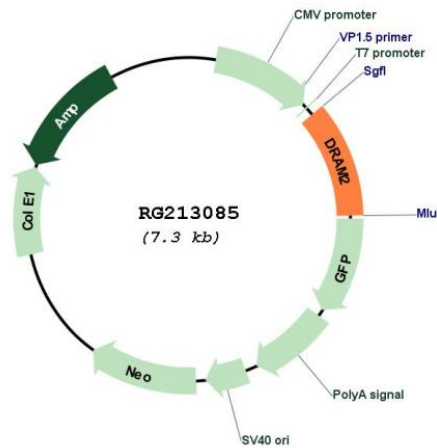
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_178454

ORF Size: 798 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 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_178454.3](#)

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]