

Product datasheet for **RR212454**

Dram2 (NM_001025018) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dram2 (NM_001025018) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Dram2
Synonyms: Tmem77
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR212454 representing NM_001025018
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGTGGTTTCAGCAAGGCCTTAGCTTCCTCCGTCGGCCCTTGTAATTTGGACATTTGCTACCTTTA
TATTCTCATATCACTGCAATAACACTCCACCATGTTGACCCTGCATTGCCTTACATCAGCGACTGG
GACAATGCCTCCTGAAAGGTGCCTCTTTGGAGTAATGCTGAATATCGCTGCCGTTTTAGGCATTGCTACT
ATCTATGTTTCGTTACAAGCAAGTTCATGCACTGAACCCGAAGAGAACCTTATCATCAAATTAACAAGG
CTGGCCTTGACTTGGGATACTGAGTTGTTTAGGACTTTCTTGTGGCAAATTTCCAGAAATCAGCACT
ATTTATTGTTTCATGTATGTGGAGCTGTCCTTGCCTTTAGTATGGGCTCATTTTACATGTTTGTTCAGACC
ATCCTTTCCTACCAAATGCAGCCAAAATTCACAGCAAACAAGTCTTCTGGGTCCGACTACTATTGGTTA
TCTGGTGTGGAGTAAGTGCACTTAGCATGATGACTTGCTCATCAATTTTGTACAGTAGTGACTTTGGTGC
TGATATAGTACAGAACTACACTGGAACCCAGAGGACAAAGGTTATGTGCTTCACATAGTTACTACTGCA
GCAGAAATGGTCTATGTCATTTTCCTTCTTTGGATTTTCTGACTTATATTCGTGATTTTCAGAAAATTA
CTTTACGGGTGGAAGCCAATTTACATGGATTAACCCTCTATGACTGTTCCTTGCCTGTTACCAATGA
AAGAACACCATTGCTTTCCAGAGATTTCAA

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**



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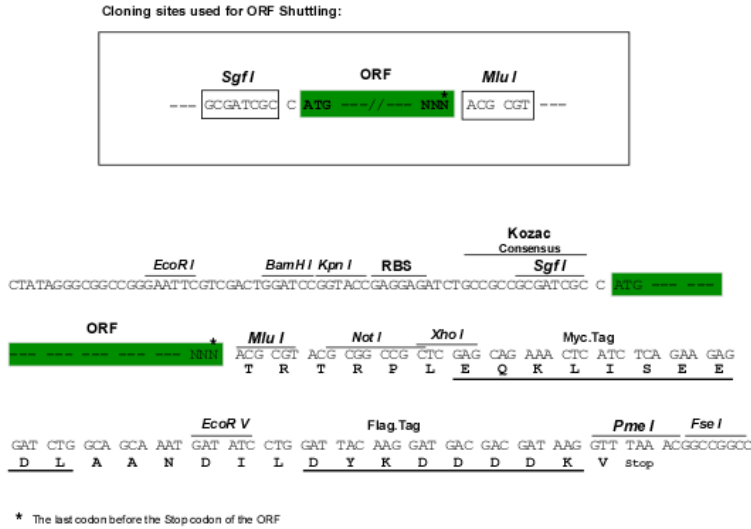
MWWFQQGLSFLPSALVIWTFATFIFSYITAITLHHVDPALPYISDTGTMPPERCLFGVMLNIAAVLGIAT
 IYVRYKQVHALNPEENLIIKLNKAGLVLGILSCLGLSLVANFQKSALFIVHVCGAVLAFSMGSFYMFVQT
 ILSYQMOPKIHSKQVFWVRLLLVIWCGVSALSMMTCCSSILYSSDFGADIVQKLHWNPEDKGYVLHIVTTA
 AEWSMSFSFFGFFLT YIRDFQKITLRVEANLHGLTLYDTPCPTNERTPLL SRDFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3179_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001025018

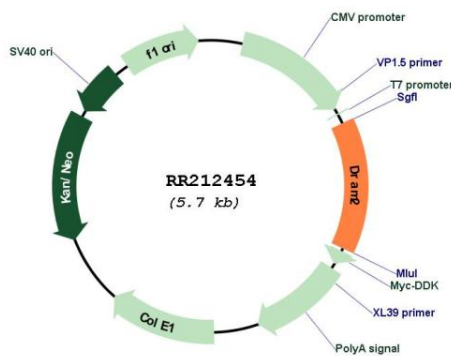
ORF Size: 801 bp

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:	<ol style="list-style-type: none"> 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:	<u>NM_001025018.1, NP_001020189.1</u>
RefSeq Size:	1435 bp
RefSeq ORF:	804 bp
Locus ID:	362011
UniProt ID:	<u>Q5BK09</u>
Cytogenetics:	2q34
MW:	30.2 kDa
Gene Summary:	Plays a role in the initiation of autophagy. In the retina, might be involved in the process of photoreceptor cells renewal and recycling to preserve visual function. Induces apoptotic cell death when coexpressed with DRAM1.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RR212454