

## Product datasheet for **SC304238**

### GRAMD4 (NM\_015124) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GRAMD4 (NM_015124) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRAMD4
Synonyms:	DIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

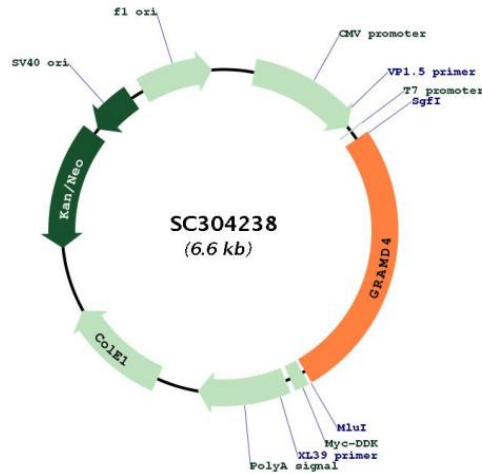


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**Fully Sequenced ORF:** >SC304238 representing NM\_015124.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCTAAGGAGGTTGGACAAAATCAGGTTTCAGAGGTCACAAGAGAGATGACTTCCTCGATCTAGCGGAG
TCTCAAATGCCTCGGACACCGAATGCAGCGACGAAATCCCCCTGAAGGTACCGCGGACCTCGCCCCGG
GACAGCGAGGAGCTGAGGGACCCTGCTGGTCCAGGGACCCTCATCATGGCCACAGGAGTCCAGGACTTT
AACCGGACAGAGTTTGATCGACTGAATGAGATCAAAGGTCACCTGGAAATTGCCTTATTGAAAAACAT
TTCTTACAGGAGGAGCTCCGGAAGCTGCGAGAAGAAACCAACGCGGAGATGCTGCGGCAGGAGCTGGAC
CGCGAGCGGCAGCGGGATGGAGCTGGAGCAGAAGGTGCAGGAGGTGCTGAAGGCCAGAACCGAGGAG
CAGATGGCTCAGCAGCCCCAAAAGGGCAGGCCAGGCCAGCAATGGAGCAGAGCGCCGGAGCCAGGGG
CTGTCTCGCGCTGCAGAAGTGGTCTACGAGCGTTCCGGGAGTACGTGGAGGACTTCCGGTTCCAG
CCCAGGAGAACACTGTGGAGACAGAGGAACCCCTGAGCGCCCGCAGGTTAACTGAAAATATGAGACGG
CTCAAGCGCGGTGCCAAGCCGGTCACTAATTTGTGAAGAACCTCTCTGCCTTATCCGACTGGTACTCC
GTCTACACGTCTGCCATTGCCTTACCCTGTACATGAATGCCGTGTGGCATGGCTGGGCCATCCCATTG
TTCTTATTTCTAGCAATTCTGAGGTTATCCCTCAATTACCTCATCGCCAGGGGGTGGCGGATACAGTGG
AGCATCGTGCCCGAAGTGTCTGAGCCCGTGAACCTCAAAGGAAGACCTGACTGTGTCTGAGAAGTTC
CAGCTGGTGTGGACGTGCGCCAGAAAGCCAGAACCTTTTCGGGAAGATGGCTGACATCCTGGAGAAG
ATCAAGAACTTGTTTCATGTGGGTCCAGCCGGAGATCACACAGAAGCTGTATGTGGCGCTCTGGGCTGCC
TTCTGGCCTCCTGCTTCTCCCTACCGCTGGTGGGGCTTCCCGTGGGACTCTATGCTGGTATCAAG
TTCTTCTCATTGATTTTCATCTTTAAACGCTGCCGAGGCTGCGCGCCAAGTACGACACGCCCTATATC
ATCTGGAGGAGTCTCCCACCGACCCGAGCTCAAGGAGCGCTCCAGCGCCGAGTCTCAGCAGGCTG
CAGACGACCTCGTCACGGAGCTACGTACCCAGCGCACCGCCGGCTGGGTAAAGAGGAGGACGCCGGT
CGCTTCCACAGCACCAAGAAGGGCAATTTCCACGAGATTTCAATCTGACAGAAAACGAGCGTCCGCTG
GCGGTGTGCGAGAATGGCTGGCGCTGCTGCCTCATCAACAGGGACCGGAAGATGCCACGGACTACATC
AGGAACGGGGTGTCTACGTACGGAGAATTACTTGTGCTTCGAAAGCTCCAAATCTGGGTCTCAAAG
AGGAACAAAGTCATCAAGCTAGTGGACATCACGGACATCCAGAAGTACAAGGTCTGTCTGTCTCCCA
GGCTCAGGCATGGGGATTGCCGTGTCGACGCCATCCACCCAGAAACCGCTCGTGTGGTGGCCATGGTG
CACAGGGATGAGGCCTTCGAGACCATTCTCAGCCAGTACATCAAGATCACCTCAGCGGCAGCGTCTGGC
GGGGACAGCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_015124

**Insert Size:** 1737 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](#)

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_015124.4](#)

**RefSeq Size:** 4511 bp

**RefSeq ORF:** 1737 bp

**Locus ID:** 23151

**UniProt ID:** [Q6IC98](#)

**Cytogenetics:** 22q13.31

**Protein Families:** Transmembrane

**MW:** 66.4 kDa

**Gene Summary:** GRAMD4 is a mitochondrial effector of E2F1 (MIM 189971)-induced apoptosis (Stanelle et al., 2005 [PubMed 15565177]).[supplied by OMIM, Jan 2011]