

Product datasheet for **RG216103**

GRAMD4 (NM_015124) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRAMD4 (NM_015124) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GRAMD4
Synonyms:	DIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216103 representing NM_015124
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTAAGGAGGTTGGACAAAATCAGGTTCCAGAGGTCACAAGAGAGATGACTTCCTCGATCTAGCGGAGT
 CTC AAAATGCCTCGGACACCGAATGCAGCGACGAAATCCCCTGAAGGTACCGCGGACCTCGCCCCGGGA
 CAGCGAGGAGCTGAGGGACCCTGCTGGTCCAGGGACCCTCATCATGGCCACAGGAGTCCAGGACTTTAAC
 CGGACAGAGTTTGTGACTGAATGAGATCAAAGGTCACCTGGAATTCCTTATTGGAAAAACATTTCT
 TACAGGAGGAGCTCCGGAAGCTGCGAGAAGAAACCAACGCGGAGATGCTGCGGCAGGAGCTGGACCGCA
 GCGGCAGCGCGGATGGAGCTGGAGCAGAAGGTGCAGGAGGTGCTGAAGGCCAGAACCGAGGAGCAGATG
 GCTCAGCAGCCCCAAAAGGGCAGGCCAGGCCAGCAATGGAGCAGAGCGCCGGAGCCAGGGGCTGTCT
 CGCGCTCAGAGAAGTGGTCTACGAGCGGTTCCGGGAGTACGTGGAGGACTTCCGGTTCAGCCCGAGGA
 GAACACTGTGGAGACAGAGGAACCCCTGAGCGCCCGCAGGTTAACTGAAAATATGAGACGGCTCAAGCGC
 GGTGCCAAGCCGGTCACTAACTTTGTGAAGAACCTCTCTGCCTTATCCGACTGGTACTCCGTCTACACGT
 CTGCCATTGCCTTACCCTGTACATGAATGCCGTGTGGCATGGCTGGGCCATCCCATTGTTCTTATTCT
 AGCAATTTCTGAGGTTATCCCTCAATTACCTCATCGCCAGGGGGTGGCGGATACAGTGGAGCATCGTGCC
 GAAGTGTCTGAGCCCGTGAACCTCAAAGGAAGACCTGACTGTGTCTGAGAAGTCCAGCTGGTGTCTG
 ACGTCGCCCAGAAAGCCAGAACCTTTTCGGGAAGATGGCTGACATCCTGGAGAAGATCAAGAATTGTT
 CATGTGGTCCAGCCGGAGATCACACAGAAGCTGTATGTGGCGCTCTGGGCTGCCTTCTGGCCTCTGC
 TTCTTCCCCTACCGCCTGGTGGGCTTGGCGGGACTATGCTGGTATCAAGTCTTCTCATTGATT
 TCATCTTTAAACGCTGCCCGAGGCTGCGCGCAAGTACGACACGCCCTATATCATCTGGAGGATCTCCC
 CACCGACCCGCAGCTCAAGGAGCGCTCCAGCGCCGAGTCTCACGACGGCTGCAGACACCTCGTACCGG
 AGCTACGTACCCAGCGCACCGGCCGCTGGTAAAGAGGAGGACGCGCGTTCGTTCCACAGCACCAAGA
 AGGGCAATTTCCACGAGATCTTCAATCTGACAGAAAACGAGCGTCCGCTGGCGGTGTGCGAGAATGGCTG
 GCGCTGTGCCTCATCAACAGGGACCGGAAGATGCCACGGACTACATCAGGAACGGGGTCTCTACGTC
 ACGGAGAATTACTTGTGCTTCGAAAGCTCAAATCTGGTCTCAAAGAGGAACAAAGTCAAGCTAG
 TGGACATCAGGACATCCAGAAGTACAAGTCTGTCTGTCTCCAGGCTCAGGCATGGGGATTGCCGT
 GTCGACGCCATCCACCCAGAACCGCTCGTGTGGTGGCATGGTGCACAGGGATGAGGCCCTCGAGACC
 ATTCTCAGCCAGTACATCAAGATCACCTCAGCGGCAGCGTCTGGCGGGGACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG216103 representing NM_015124
 Red=Cloning site Green=Tags(s)

MLRRDLKIRFRGHRDDFLDLAESPASDTECSDEIPLKVPRTSPRDSEELRDPAGPGTLIMATGVQDFN
 RTEFDRLNEIKGHLEIALLEKHFLQEELRKLREETNAEMLRQELDRERQRRMELEQKVQEVLKARTEEQM
 AQQPPKQQAQASNGAERRSQGLSSRLQKWFYERFGEYVEDFRFQPEENTVETEEPLSARRLTENMRLKR
 GAKPVTNFVKNLSALSDWYSVYTSIAIAFTVYMNAVWHGWAIPFLFLAILRLSLNYLIARGWRIQWSIVP
 EVSEPVPEPKEDLTVSEKFLVLDVAQKAQNLFGKMADILEKIKNLFMWVQPEITQKLYVALWAAFLASC
 FFPYRLVGLAVGLYAGIKFFLIDFIFKRCPRLRKYDTPYIIWRSPLTDPQLKERSSAAVSRRLQTTSSR
 SYVPSAPAGLGKEEDAGRFHSTKKNFHEIFNL TENERPLAVCENGWRCCLINRDRKMPTDYIRNGVLYV
 TENYLCFESSKSGSSKRNVIKLVDITDIQKYKVL SVLPGSGMGI AVSTPSTQKPLVFGAMVHRDEAFET
 ILSQYIKITSAAAASGGDS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_015124

ORF Size: 1734 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.

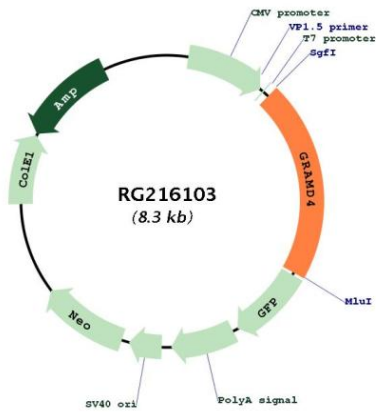
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_015124.4, NP_055939.1](#)
RefSeq Size: 4316 bp
RefSeq ORF: 1737 bp
Locus ID: 23151
UniProt ID: [Q6IC98](#)
Cytogenetics: 22q13.31
Protein Families: Transmembrane
Gene Summary: GRAMD4 is a mitochondrial effector of E2F1 (MIM 189971)-induced apoptosis (Stanelle et al., 2005 [PubMed 15565177]).[supplied by OMIM, Jan 2011]

Product images:



Circular map for RG216103