

## Product datasheet for **MG216194**

### Gramd4 (NM\_172611) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gramd4 (NM_172611) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gramd4
Synonyms:	9930016O13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG216194 representing NM\_172611  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCATTGCTTCTCACTCTGCATTAGAGAGAGAGAGCTCACCTACAGGAGCTCTCTGGATGCCA  
 GCCCAGACCCTGGGACAAAGGCCTGTCTGGAAGGGAGCCTCCCCGTATGTCCAGGTGAGGCCGAGGAG  
 TGCCGTGCTGAACATGCTCAGGAGGCTGGATAGGATCAGGTTAGAGGACACAAGAGAGAGGACCTCCTT  
 GATCTAGCCGAGTCCCCAAATGCCTCGGACACCGAGTGCAGGAGACGAGATCCCCCTGAAGACGCCACGGC  
 CCTCGCCCCGGGACAGTGAAGGAGCTCAGGGACCCTGCTGGTCCAGGGACCCTCATCATGGCGGCAGGCGT  
 GCAGGACTTCAACAGGACAGAGTTTCATCGACTGAACGAGATCAAGGGCCATCTGGAAATCGCCTTACTG  
 GAAAAGCACTTTCTTTCAGGAGGAGCTCCGAAGCTTCGAGAAGAGACCAACTCAGAGATGCTGCGGCAGG  
 AGCTGGATCGGGAGCGGCAGCGCCGGATCGAAGTGAACAGAAAATGCAGGAGGTGCTAAAGGCCAGGTC  
 CGAGGAGCAGCCAGCACAGCCTCAGCAGCCACCAAGGGACAGAGCCAGGCCAGCAATGGCACAGGCACA  
 GAGCGCCGACAGCCAGGGCTTGGCCCTCCCGTGTACAGAAGTGGTTCTATGAGAGGTTTGGGGAATACATCG  
 AGGACTTCCGCTTCCAACCAGAGGAGAACAAGTACAGTACAGACGAGGAGGCCCTCAGCGCCCGAGGTTAAC  
 TGAAAACATGAGAAGACTGAAGCGCGGTGCCAAGCCTGTCACTAACTTCGTGAAGAACCTGTCTGCCTTA  
 TCTGACTGGTACTCCATCTACACCTCCGCCATCGCCTTACGGTATACATGAATGCTGTGTGGCAGCGGT  
 GGGCCATCCCCATGTTCTGTTCTTAGCAATTTCTGAGGTTGTCCCTCAATTACCTCATCGCCAGGGGCTG  
 GCGGATAACAATGGAGCATTGTGCCGAAGTGTCTGAAGCTGTGGAACCCGCAAAGGAAGTCTGACCGTG  
 TCTGAGAAGTCCAGCTGGTGTGGATGTGGCCAGAAAGCACAGAATCTCTCGCAAGATGGCCGACA  
 TCCTGGAAAAGATCAAGAACTTGTTCATGTGGGTGCAACCTGAGACCAGCAGAAGCTCTATGTTGCCCT  
 GTGGGCCGCTTTCTGGCTTCTGCTTCTTCCCTACCGCTGGTGGGGCTTGTGTTGGCCTCTATGCC  
 GGCATCAAGTTTTTCTTAATTGACTTCTCTTCAAACGCTGCCAAGACTTCGAGCCAAGTATGACACCC  
 CCTATATCATCTGGAGGAGCCTGCCACTGACCCTCAGCTCAAAGAGCGTGTGGTACCACCGTGTACAG  
 CAGGCTGCAGACAGCCTCATCACGGAGTACGTCTCCAGTGTCCAGTGGTCTGAGTAAGGACGAAGAT  
 GCTGGACGCTTTCACAGCACCAAGAAGGGGAATTCCACGAAATCTTCAACTTGACTGAAAACGAGCGCC  
 CGTAGCAGTGTGCGAGAATGGCTGGCGTGTGCCTCATTAAACGAGACCGGAAGTGCCACGGACTA  
 CATCAGGAACGGGTTCTGTATGTGACAGAGAATTACCTGTGCTTCGAGAGCTCCAAGTCTGGGTATCA  
 AAGAGGAACAAGGTGATCAAACCTGATGGACATCACAGACATCCAGAAGTATAAAGTCTTGTCTGTCTCC  
 CTGGCTCAGGCATGGGAATTGCTGTTTCTACACCATCAACCCAGAAACCCCTGGTGTTCGGTGCCATGGT  
 GCACAGAGATGAAGCCTTTGAGACCATTTTCAGCCAGTATGTGAAAATCACGCTTCAGCGGCCTCTGGC  
 GGTGACAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG216194 representing NM\_172611  
 Red=Cloning site Green=Tags(s)

MGIASHSAFRERESSPTGASLDASPRPDKGLSGREPPRHVQVRPRSAVLNMLRRLDRIRFRGHKREDLL  
 DLAEASNADTECGDEIPLKTPRSPRDSEELRDPAGPGTLIMAAGVQDFNRTEFDRLNEIKGHLEIALL  
 EKHFLEELRKLREETNSEMLRQELDRERQRRIELEQKMQEVLKARSEEQPAQPQPPKQSQASNGTGT  
 ERRSQGLASRVQKWFYERFGEYIEDFRFQPEENTVETEEPLSARRLTENMRRLKRGAKPVTNFVKNSAL  
 SDWYSIYTSIAIAFTVYMNVAWHGWAIPMFLFLAILRLSLNYLIARGWRIQWSIVPEVSEAVEPAKEDLTV  
 SEKFQLVLDVAQKAQNLFGKMADILEKIKNLFMWVQPETTKLYVALWAAFLASCFFPYRLVGLAVGLYA  
 GIKFFLIDFIFKRCPRLRKYDTPYIIWRSLPTDPQLKERAGATVSRRLQTASSRSYVSSAPAGLSKDED  
 AGRFHSTKKNFHEIFNL TENERPLAVCENGWRCCLINRDRKMPD YIRNGVLYVTENYLCFESSKSGSS  
 KRNVKIKLMDITDIQKYKVL SVLPGSGMGI AVSTPSTQKPLVFGAMVHRDEAFETIFSQYVKITSAASG  
 GDS

**TRTRPLE** - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_172611

ORF Size: 1899 bp

OTI Disclaimer: 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\\_172611.4](#), [NP\\_766199.1](#)

RefSeq Size: 4117 bp

RefSeq ORF: 1902 bp

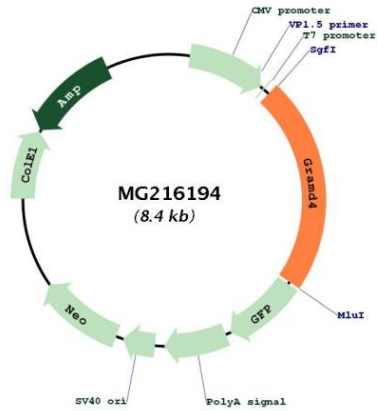
Locus ID: 223752

UniProt ID: [Q8CB44](#)

**Cytogenetics:** 15 E2

**Gene Summary:** Plays a role as a mediator of E2F1-induced apoptosis in the absence of p53/TP53 (By similarity). Inhibits TLR9 response to nucleic acids and regulates TLR9-mediated innate immune response (PubMed:25917084).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG216194