

## Product datasheet for **MR230728**

### Gramd4 (NM\_001205353) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gramd4 (NM_001205353) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gramd4
Synonyms:	9930016013
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230728 representing NM\_001205353  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGAGAGTTGGCCCCGATCATCCCGCAGGGGAGCCTCCCCGTATGTCCAGGTGAGGCCGAGGAGTGCCG  
 TGCTGAACATGCTCAGGAGGCTGGATAGGATCAGGTTAGAGGACACAAGAGAGAGGACCTCCTTGATCT  
 AGCCGAGTCCCCAAATGCCTCGGACACCGAGTGCAGGAGACGAGATCCCCCTGAAGACGCCACGGCCCTCG  
 CCCCAGGACAGTGAAGGCTCAGGGACCCTGCTGGTCCAGGGACCCTCATCATGGCGGCAGGCGTGCAGG  
 ACTTCAACAGGACAGAGTTTCGATCGACTGAACGAGATCAAGGGCCATCTGGAAATCGCCTTACTGAAAA  
 GCACTTTCTTCAGGAGGAGCTCCGGAAGCTTCGAGAAGAGACCAACTCAGAGATGCTGCGGCAGGAGCTG  
 GATCGGGAGCGGCAGCGCCGGATCGAACTGGAACAGAAAATGCAGGAGGTGCTAAAGGCCAGGTCCGAGG  
 AGCAGCCAGCACAGCCTCAGCAGCCACCAAGGGACAGAGCCAGGCCAGCAATGGCACAGGCACAGAGCG  
 CCGCAGCCAGGGCTTGGCCTCCCGTGTACAGAAGTGGTTCTATGAGAGGTTTGGGAATACATCGAGGAC  
 TCCCGCTTCCAACCAGAGGAGAACAAGTACAGTACAGAGCGGAGGAGCCCTCAGCGCCCGCAGGTTAACTGAAA  
 ACATGAGAAGACTGAAGCGCGGTGCCAAGCCTGTCACTAACTTCGTGAAGAACCTGTCTGCCTTATCTGA  
 CTGGTACTCCATCTACACCTCCGCCATCGCCTTACCGGTATACATGAATGCTGTGTGGCAGGCTGGGCC  
 ATCCCCATGTTCTGTTCTTAGCAATTCGAGGTTGTCCCTCAATTACCTCATCGCCAGGGGCTGGCGGA  
 TACAATGGAGCATTGTGCCGGAAGTGTCTGAAGCTGTGGAACCCGCAAAGGAAGATCTGACCGTGTCTGA  
 GAAGTTCAGCTGGTGTGGATGTGGCCAGAAAGCACAGAATCTTTCGCAAGATGGCCGACATCCTG  
 GAAAAGATCAAGAAGTTGTTTCATGTGGTGCAACCTGAGACCACGAGAAGCTCTATGTTGCCCTGTGGG  
 CCGCCTTTCTGGCTTCTGCTTCTCCCTACCCTGGTGGGGCTTGTGTTGGCCTCTATGCCGAT  
 CAAGTTTTTCTTAATTGACTTCATCTTCAAACGCTGCCAAGACTTCGAGCCAAGTATGACACCCCTAT  
 ATCATCTGGAGGAGCCTGCCACTGACCCTCAGCTCAAAGAGCGTGTGGTGCCACCGTGTACGCAGGC  
 TGCAGACAGCCTCATCACGGAGTACGTCTCCAGTGTCCAGTGGTCTGAGTAAGGACGAAGATGCTGG  
 ACGCTTTCACAGCACCAAGAAGGGGAAGTCCACGAAATCTTCAACTTGACTGAAAACGAGCGCCCGCTA  
 GCAGTGTGCGAGAATGGCTGGCGTGTGCCTCATTAAACGAGACCGGAAGATGCCACGGACTACATCA  
 GGAACGGGTTCTGTATGTGACAGAGAATTACCTGTGCTTCGAGAGCTCCAAGTCTGGGTATCAAAGAG  
 GAACAAGGTGATCAAAGTATGACATCACAGACATCCAGAAGGAGGAGCGTCTGGACGAGTGGGGA  
 CTAGCATACCCCTGTCTTAGGAGAAGCTGGTGGCCCGTGGCAATGGTTGTACTTTTCAATTTAGTA  
 TAAAGTCTTGTCTCCTCCCTGGCTCAGGCATGGGAATTGCTGTTTCTACACCATCAACCCAGAAACCC  
 CTGGTGTTCGGTGCATGGTGCACAGAGATGAAGCCTTTGAGACCATTTTCAGCCAGTATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230728 representing NM\_001205353  
 Red=Cloning site Green=Tags(s)

MRVGPDPHAGEPPRHVQVRPRSAVLNMLRRLDRIRFRGHKREDLLDLAESPNASDTECGDEIPLKTPRPS  
 PRDSEELRDPAGPGTLIMAAGVQDFNRTEFDRLNEIKGHLEIALLEKHFLQEELRKLREETNSEMLRQEL  
 DRERQRRIELEQKMQEVLKARSEEQPAQPQPPKQSQASNGTGERRSQGLASRVQKWFYERFGEYIED  
 FRFQPEENTVETEEPLSARRLTENMRRLKRGAKPVTNFKNLSALSDWYSIYTSIAIFTVYMNVAVHWGWA  
 IPMFLFLAILRLSLNYLIARGWRIQWSIVPEVSEAVEPAKEDLTVSEKFLVLDVAQKAQNLFGKMADIL  
 EKIKNLFMWVQPETTKLYVALWAAFLASCFPPYRLVGLAVGLYAGIKFFLIDFIFKRCPRLRKAYDTPY  
 I IWRSLPTDPQLKERAGATVSRRLQTASSRSYVSSAPAGLSKDEDAGRHFHSTKKNFHEIFNL TENERPL  
 AVCENGRWRCCLINRDRKMPDIDYIRNGVLYVTENYLCFESSKSGSKRNKVIKMDITDIQKEESVLDEWG  
 LASPLSLGEAGGPVAMVFLFHFSIKSCLSSLAQAWELLFLHHQPRNPWCSVPWCTEMKPLRPFASMS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001205353

ORF Size: 1881 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\\_001205353.1](#), [NP\\_001192282.1](#)

RefSeq Size: 4310 bp

RefSeq ORF: 1884 bp

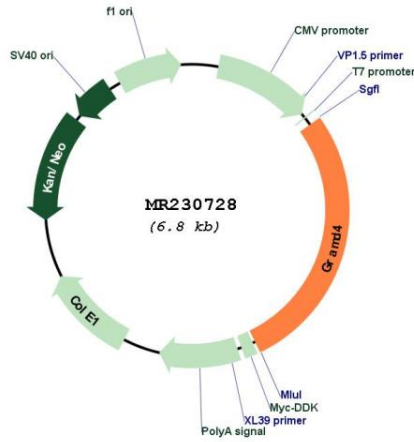
Locus ID: 223752

Cytogenetics: 15 E2

**MW:** 72.6 kDa

**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 MR230728