

## Product datasheet for **MC228517**

### Gramd4 (NM\_001205353) Mouse Untagged Clone

#### Product data:

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



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**Fully Sequenced ORF:** >MC228517 representing NM\_001205353  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGAGTTGGCCCCGATCATCCCGCAGGGGAGCCTCCCCGTATGTCCAGGTGAGGCCGAGGAGTGCCG  
 TGCTGAACATGCTCAGGAGGCTGGATAGGATCAGGTTCCAGAGACACAAGAGAGAGGACCTCCTTGATCT  
 AGCCGAGTCCCCAAATGCCTCGGACACCGAGTGCAGGAGACGAGATCCCCCTGAAGACGCCACGGCCCTCG  
 CCCCAGGACAGTGAAGGCTCAGGGACCCTGCTGGTCCAGGGACCCTCATCATGGCGGCAGGCGTGCAGG  
 ACTTCAACAGGACAGAGTTCGATCGACTGAACGAGATCAAGGGCCATCTGGAAATCGCCTTACTGGAAAA  
 GCACTTTCTTCAGGAGGAGCTCCGGAAGCTTCGAGAAGAGACCAACTCAGAGATGCTGCGGCAGGAGCTG  
 GATCGGGAGCGGCAGCGCCGGATCGAACTGGAACAGAAAATGCAGGAGGTGCTAAAGGCCAGGTCCGAGG  
 AGCAGCCAGCACAGCCTCAGCAGCCACCAAGGGACAGAGCCAGGCCAGCAATGGCACAGGCACAGAGCG  
 CCGCAGCCAGGGCTTGGCCTCCCGTGTACAGAAGTGGTTCTATGAGAGGTTTGGGAATACATCGAGGAC  
 TCCCGCTTCCAACCAGAGGAGAACAAGTACAGTACAGAGACGAGGAGCCCTCAGCGCCCGCAGGTTAACTGAAA  
 ACATGAGAAGACTGAAGCGCGGTGCCAAGCCTGTCACTAACTTCGTGAAGAACCTGTCTGCCTTATCTGA  
 CTGGTACTCCATCTACACCTCCGCCATCGCCTTACCGGTATACATGAATGCTGTGTGGCAGCGCTGGGCC  
 ATCCCCATGTTCTGTTCTTAGCAATTCAGGTTGTCCCTCAATTACCTCATCGCCAGGGGCTGGCGGA  
 TACAATGGAGCATTGTGCCGGAAGTGTCTGAAGCTGTGGAACCCGCAAAGGAAGATCTGACCGTGTCTGA  
 GAAGTTCAGCTGGTGTGGATGTGGCCAGAAAGCACAGAATCTCTCGCAAGATGGCCGACATCCTG  
 GAAAAGATCAAGAAGTGTTCATGTGGTGCAACCTGAGACCACGAGAAGCTCTATGTTGCCCTGTGGG  
 CCGCCTTTCTGGCTTCTGCTTCTCCCTACCCTGGTGGGGCTTGTGTTGGCCTCTATGCCGGCAT  
 CAAGTTTTTCTTAATTGACTTCATCTTCAAACGCTGCCAAGACTTCGAGCCAAGTATGACACCCCTAT  
 ATCATCTGGAGGAGCCTGCCACTGACCCTCAGCTCAAAGAGCGTGTGGTGGCCACCGTGTACGCAGGC  
 TGCAGACAGCCTCATCACGGAGTACGTCTCCAGTGTCCAGTGGTCTGAGTAAGGACGAAGATGCTGG  
 ACGCTTTCACAGCACCAAGAAGGGGAAGTCCACGAAATCTTCAACTTGACTGAAAACGAGCGCCCGCTA  
 GCAGTGTGCGAGAATGGCTGGCGTGTGCCTCATTAAACGAGACCGGAAGATGCCACGGACTACATCA  
 GGAACGGGTTCTGTATGTGACAGAGAATTACCTGTGCTTCGAGAGCTCCAAGTCTGGGTATCAAAGAG  
 GAACAAGGTGATCAAAGTATGACATCACAGACATCCAGAAGGAGGAGCGTCTGGACGAGTGGGGA  
 CTAGCATACCCCTGTCTTAGGAGAAGCTGGTGGCCCGTGGCAATGGTTGTACTTTTCAATTTAGTA  
 TAAAGTCTGTCTCCTCCCTGGCTCAGGCATGGGAATTGCTGTTTCTACACCATCAACCCAGAAACCC  
 CTGGTGTTCGGTGCCATGGTGCACAGAGATGAAGCCTTTGAGACCATTTTCAGCCAGTAT**GTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001205353
- Insert Size:** 1884 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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

**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]  
Transcript Variant: This variant (2) differs in the 5' UTR, initiates translation at an alternate start codon, and uses an alternate splice site in the 3' coding region, compared to variant 1, which results in a translational frameshift. The encoded isoform (2) is shorter and has distinct N- and C-termini, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.