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# Product datasheet for MR219694L4V

## Grin3a (NM_001033351) Mouse Tagged ORF Clone Lentiviral Particle

### Product data:

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|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | Grin3a (NM_001033351) Mouse Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | Grin3a |
| **Synonyms:** | 6430537F04; A830097C19Rik; mKIAA1973; NMDAR-L; NR3A |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-mGFP-P2A-Puro (PS100093) |
| **Tag:** | mGFP |
| **ACCN:** | NM_001033351 |
| **ORF Size:** | 3345 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(MR219694). |
| **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.<br><br>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. |
| **RefSeq:** | NM_001033351.2, NP_001028523.1 |
| **RefSeq Size:** | 7667 bp |
| **RefSeq ORF:** | 3348 bp |

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| **Locus ID:** | 242443 |
| **UniProt ID:** | A2AIR4 |
| **Cytogenetics:** | 4 B1 |
| **Gene Summary:** | NMDA receptor subtype of glutamate-gated ion channels with reduced single-channel conductance, low calcium permeability and low voltage-dependent sensitivity to magnesium. Mediated by glycine. During the development of neural circuits, plays a role in the synaptic refinement period, restricting spine maturation and growth (By similarity). By competing with GIT1 interaction with ARHGEF7/beta-PIX, may reduce GIT1/ARHGEF7-regulated local activation of RAC1, hence affecting signaling and limiting the maturation and growth of inactive synapses (PubMed:24297929). May also play a role in PPP2CB-NMDAR mediated signaling mechanism (By similarity).[UniProtKB/Swiss-Prot Function] |