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# Product datasheet for MR227356L3V

## Gucy2d (NM_001130693) Mouse Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | Gucy2d (NM_001130693) Mouse Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | Gucy2d |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| **Tag:** | Myc-DDK |
| **ACCN:** | NM_001130693 |
| **ORF Size:** | 3351 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(MR227356). |
| **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. |
| **RefSeq:** | NM_001130693.3, NP_001124165.1 |
| **RefSeq Size:** | 3633 bp |
| **RefSeq ORF:** | 3354 bp |
| **Locus ID:** | 14918 |
| **UniProt ID:** | A0A0U1RPR8 |
| **Cytogenetics:** | 7 53.86 cM |

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**Gene Summary:** Functions as an olfactory receptor activated by urine odorants, uroguanylin and guanylin and as well by the volatile semiochemicals carbon disulfide (CS2) and carbon dioxide (CO2) (PubMed:17724338, PubMed:17702944, PubMed:20637621). Has guanylate cyclase activity upon binding of the ligand (By similarity). Activation of GUCY2D neurons leads to the cGMP-dependent activation of the CNGA3 channels, membrane depolarization and an increase in action potential frequency (PubMed:17724338, PubMed:20637621). Signaling pathways activated by GUCY2D may trigger social behaviors such as acquisition of food preference (PubMed:20637621).[UniProtKB/Swiss-Prot Function]