

Product datasheet for MR227356

Gucy2d (NM_001130693) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy2d (NM_001130693) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gucy2d
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227356 representing NM_001130693 Red=Cloning site Blue=ORF Green=Tags(s)

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GCCCGATCGCC

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TGCCCTGCCAGGGCCCGTGGAGACTCACTGTCACTCATCTGAAGACTGTCTTCCATATCAGTCCCTCTC
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GGACAGCGCAGTGAGTCAAGAAGTGTGGTGGATGGTGGAAAGTCCACGGTCGGTGACCCAGGGGTGAGCA
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Protein Sequence:

>MR227356 representing NM_001130693
 Red=Cloning site Green=Tags(s)

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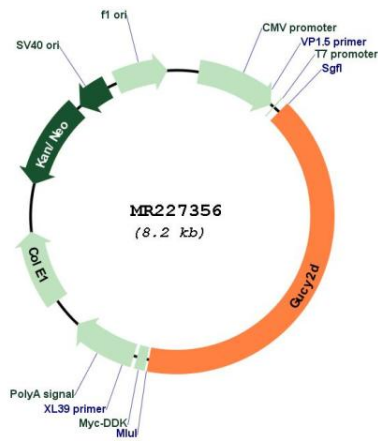
Chromatograms:

https://cdn.origene.com/chromatograms/mm9088_h03.zip

Cytogenetics: 7 53.86 cM
MW: 122.5 kDa

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]

Product images:



Circular map for MR227356