

Product datasheet for **RN210558**

Gucy2d (NM_130737) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy2d (NM_130737) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gucy2d
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN210558 representing NM_130737 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGTCTGCAGCAGGGCTGTACCCCGAAGGCCAGGACTGGACAGCGCCACACTGGAAGACCTGCC
GGGCCCTGCCAGGGCCACGGGGACTCACGGTCAGACATCTGAGGACAGTCTTCCATATCGGTCTTCTC
TGTGGTATTTGGGGTGTCTTGCTGTGGGCTGACTCTTTCCCTGCCAGCATGGGCAAGAGAGACCTTC
ACCCTTGGGGTGTCTGGTCCCTGGGACTGTGACCCTATCTTTGCCAGGCACTCCCTAGCATGGCTACCC
AGTTGGCTGTAGATCGAGTCAATCAGGACGCCTCACTGCTGCTGGGCTCACAGTTGGATTCAAGATCCT
CCCTACAGGCTGTGACACCCCTCATGCCCTGGCCACATTTGTGGCCACAGGAACACAGTGGCTGCTTTT
ATAGGCCCTGTCAATCCTGGGTATTGTCCAGCAGCAGCTCTGCTGGCCCAAGGCTGGGGCAAGTCCCTCT
TCTCTGGGCTGTGGAGCTCCAGAGGGAGGAGTGCCTTAGTGCCCACTTTGCCTTCTATGGCCGACGT
GCTACTGTCTGCATGAGACACTTTGGCTGGGCTCGCTGGCCATCGTGTCTCTACCAGGACATCTGG
GTAACCACAGCCCAGCAGCTAGCCACAGCTTTCAGGGCCCATGGGCTGCCTATCGGACTGATCACCTCCT
TGGGACCTGGAGAGAAGGGGGCCACGGAGGTTTGAAGCAGCTCCACAGTGTGCATGGTCTGAAAATCGT
GGTTCTGTGCATGCACTCAGCGCTGCTTGGAGGCCCTAGAGCAGACAGTCCCTGCTGCGCTGCGCGAGGGAG
GAGGGCCTGACAGATGGCAGACTGGTCTTCTTGCCCTACGACACGCTGCTCTTTGCCCTGCCCTATCGTA
ACCGCTCTTACCTGGTCTGGATGATGATGGGCCCTTACGAGGCGCTACGATGCAGTACTCACCATCAG
TCTGGACACCAGTCTGAGAGCCATGCCTTCACTGCTACCAAGATGAGAGGAGGGGACAGTGCCTTGTG
GGGCCCGAGCAGGTGTCCCCTCTTTGGAATCTACGATGCCGTATCCTGTTGGCCATGCCCTGA
ACCACTCTGAGACCCATGGAACGGGGCTCTCAGGGGCTCACTTAGGAACCATATAAGAGCTCTTGATGT
GGCTGGTTTTAGCCAGAGAATCCGGATAGATGGGAAAGGCAGAAGGCTACCCCAATACGTCATCCTGGAC
ACAAATGGTGAAGGAAGCCAGTTGGTCCCACCCACATCCTGGAGTGTGACACACAGCAGGTGCAGCCCC
TGGGAACGGCGGTACACTTCCCTGGAGGGAGCCCTCCAGCCCATGATGCCAGTGTGTTCCGACCCCAA
CACACTATGCATACGAGGTGTGACAGCCCTGGGACGCTCCTGACTCTGACGATAACCTGTGTCCTGGCT
CTGGTTGGTGGATTCTTGTACTTTATCAGGTTAGGCCTCCAGCAGCTGCGGCTGCTGCGGGGCCCCC
ATCGGATCCTGCTGACACCTCAAGAGCTCACCTTCCAGCGAACCCCAAGCCGGGAGGCCACATGT
GGACAGTGGCAGCGAGTCAAGAAGTGTGGTAGATGGTGGGAGTCCACAGTCACTGATCCAGGGGTCAACA



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AGGAGCGTACCAGCCTTCTGGAGCACACCAACGTGGCCCTGTACCAGGGAGAGTGGGTGTGGCTGAAGA
 AGTTTGAGGCAGGCACGGCTCCTGATCTGCGGCCAGCAGCCTCAGCCTCCTGAGAAAGATGCGGGAGAT
 GCGGCATGAGAATGTCACCGCCTTCTGGGTCTCTTTGTGGGCCCTGAGGTTAGTGCGATGGTGTGGAG
 CACTGTGCCCGTGGCAGCCTGGAGGACCTGCTACGGAATGAGGACCTGAGGCTAGACTGGACCTTCAAGG
 CCTCCTTACTGTTGGATCTGATCCGAGGTTTGCAGTATCTGCACCATCGACATTTCCCCATGGGCGCCT
 CAAGTCCAGGAACTGTGTGGTGGACACTCGCTTGTGCTCAAGATCACTGACCATGGTTATGCAGAGTTC
 CTGGAGTCTCACTGCTCTTTAGGCCCCAGCCGGCCCAAGAGCTTCTGTGGACGGCTCCTGAGCTGT
 TCGGGGGCCTCGGGGGCCTTGGGGCCCTGGGAAGGCCACCTTCAAAGGTGATGTTTTAGCCTGGGCAT
 CATCCTGCAGGAGTACTGACCCGAGACCCACCCTACTGCTCCTGGGACTCTCAGCAGAAGAGATCATC
 CGGAAGGTGGCATCTCCCCCTCCTGTGCCGGCCTCTGGTGTCCCTGACCAGGGTCCCCTGGAGTGCA
 TCCAGTTGATGCAGCTGTGCTGGGAGGAAGCTCCAGATGACAGGCCAAGCTTGGACCAGATCTACACACA
 GTTCAAAGCATCAACCAAGGCAAGAAGACAAGTGTGCTGACTCCATGCTGCGGATGCTGGAGAAGTAT
 TCCCAAAGCCTGGAAGGTCTGGTCCAGGAGCGGACTGAGGAGCTGGAAGTGGAGAGGCGGAAGACAGAGA
 GGCTGCTCTCACAGATGCTCCCCCGTCTGTGCCCCATGCTCTAAAGATGGGAACAAGTGTGGAGCCGA
 GTACTTTGACCAAGTACCATCTATTTAGTGACATCGTGGGCTTACCACCATCTCAGCCTTGAGTGAG
 CCATTGAGGTGGTGGGCTTCTCAATGATCTCTACACGATGTTTGATGCTGTTTAGACAGCCATGATG
 TGTATAAGGTAGAAACCATAGGGGATGCCTACATGGTGGCATCTGGGCTCCCTCGGCGCAACGGAATCG
 GCATGCTGCTGAGATTGCCAACATGGCTCTGGAGATCCTTAGCTACGCAGGCAACTTCCGGATGAGGCAT
 GCACCTGATGTGCCCATCCGTGTGAGGGCCGGTCTGCATTAGGGCCCTGTGTGGCAGGTGTTGTGGGTC
 TCACCATGCCTCGGTACTGCCTCTTTGGGGACACCGTGAACACTGCTTCCAGGATGGAATCCACTGGACT
 GCCATACAGAATCCACGTGAGCCGAAACTGTCCAGGCCCTGCTTAGCCTTGACGAAGGCTACAAAATT
 GATGTGAGAGTCCAGCCGAAGTGAAGGGGAAGGGCTTGGAGGAGACTTACTGGCTGACAGGGAAGACAG
 GATTTTGCAGATCCCTCCCTACACCTCTGTCCATCCAGCCTGGAGACCCATGGCAGGACCATATAACCA
 AGAAATCCGGACTGGCTTTGCAAAGCTCGCCAGAGTCTGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_130737

Insert Size:

3333 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).

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_130737.4, NP_570093.1

RefSeq Size:

3645 bp

RefSeq ORF: 3333 bp

Locus ID: 113911

UniProt ID: [P51839](#)

Cytogenetics: 1q32

Gene Summary: member of the membrane receptor guanyly cyclase family, specifically expressed in a subpopulation of olfactory sensory neurons; may function directly in odor recognition [RGD, Feb 2006]