

Product datasheet for **MR222143**

Gira3 (NM_080438) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gira3 (NM_080438) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gira3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222143 representing NM_080438
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCTTGGATAAGACTGCTTTTCAGGATCGTGGATCTCTTCCGTATCATGGCCACGTGAGACACTTTCC
 GGACACTAGTTTCTGGATTTTACTTCTGGGAAGCCGCACTGTTACTGAGTTTGGTGGCCACAAGGAAAC
 AAACAGTGC GCGATCTCGAAGTCTCCAATGTCACCTTCTGATTTTCTGGACAACTAATGGGGAGGACA
 TCGGGGTATGATGCAAGAATCAGACCCAACTTCAAAGTCTCCAGTTAATGTCACATGCAACATATTCA
 TAAACAGCTTTGGCTCCATTGCAGAGACGACTATGGATTACAGAGTAAACATTTTCTTCGTCAGAAGTG
 GAATGATCCTCGTCTGCATACAGTGAATATCCTGACGATTCATTAGACCTTGACCCGTCTATGTTGGAT
 TCCATTTGGAAACCTGACTTGTCTTTGCTAATGAGAAGGGGGCTAACTCCACGAAGTCACCACAGATA
 ACAAGCTGCTAAGAATTTTCAAAAATGGAAATGCCTTTATTCAATAAGGTTGACATTAACACTCTCCTG
 TCCAATGGATCTCAAGAATTTCCAATGGATGTACAAACATGCATAATGCAACTTGAAAGCTTTGGGTAC
 ACAATGAATGATCTCATTTTGAATGGCAAGATGAAGCCCCAGTACAAGTGGCTGAAGGACTCACATTTGC
 CTCAATTTCTGTTGAAAGAAGAAAAGGACTTGGCGTACTGCACTAAACACTACAATACAGAAAAGTTTAC
 ATGCATAGAAGTGC GATTCCATCTTGAGCGTCAGATGGGCTATTACTTGATCCAGATGTACATCCCCAGC
 CTCCTGATCGTTATTCTATCCTGGGTCTCATTCTGGATTAACATGGATGCAGCCCCAGCTAGAGTAGCTT
 TGGGCATCACCCTGACTTACTATGACCACACAGAGTTCTGGATCCCGGGCCTCCTTACCAAAGGTGTC
 ATACGTCAAGGCTATTGACATTTGGATGGCGGTGTGCCTCTTTTGTGTTCTCAGCACTTCTGGAGTAT
 GCAGCCGTGAATTTTGTCTCAAGGCAACACAAGGAGCTGTTGAGGTTTCGGCGAAAGAGAAAGAATAAGA
 CGGAAGCTTTTGCCTGGAGAAGTTTTACCGTTTCTCAGACCGGATGATGAGGTGAGGAGAGTCTGATT
 CAGCTTCACTGCCTATGGAATGGGGCCCTGTCTGCAAGCCAAGGATGGTGTGGTTCCAAAAGGCCCAAC
 CACGCTGTCCAGGTATGCCAAAGAGCCCTGATGAAATGAGGAAGGTCTTCATCGACAGGCTAAGAAGA
 TTGACACCATCTCCGAGCCTGCTTCCGCTAGCATTCTGATTTTAAACATTTTCTACTGGGTTATCTA
 TAAATCCTTAGGCATGAAGACATTCATCAGCAGCAAGAC

ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222143 representing NM_080438
 Red=Cloning site Green=Tags(s)

MPWIRLLSGSWISFRIMAHVRHFRTLVS GFYFWEAALLLSLVATKETNSARSRAPMSPSDFLDKLMGRT
 SGYDARIRPNFKGPPVNVTCNIFINSFGSIAETMDYRVNIFLRQKWNDRLAYSEYPDDSLDLDPMSLD
 SIWKPDLFFANEKGANFHEVTTDNKLLRIFKNGNVLYSIRLTLTLSCPMDLKNFPMQVQTCIMQLESFGY
 TMNDLIFEWQDEAPVQVAEGLTLPQFLLKEEKDLRYCTKHYNTGKFTCIEVRFHLERQMGGYLIQMYIPS
 LLIVILSWVSWINMDAAPARVALGITTVLMTTQSSGSRASLPKVS YVKAIDIWMAVCLLFVFSALLEY
 AAVNFVSRQHKELLRFRKRKNKTEAF ALEKFYRFSDTDDEVRESRFSFTAYGMGPCLQAKDGVVPGPN
 HAVQVMPKSPDEM RKFIDRAKKIDTISRACFPLAFLIFNIFYWYIYKILRHEDIHQQQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_g08.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_080438

ORF Size: 1440 bp

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.

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.

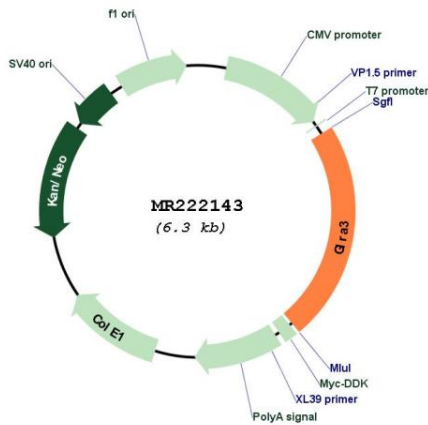
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_080438.2, NP_536686.2](#)
RefSeq Size: 1474 bp
RefSeq ORF: 1443 bp
Locus ID: 110304
UniProt ID: [Q91XP5](#)
Cytogenetics: 8 29.69 cM
MW: 56.1 kDa

Gene Summary: Glycine receptors are ligand-gated chloride channels. Channel opening is triggered by extracellular glycine (PubMed:15131310, PubMed:20978350). Channel characteristics depend on the subunit composition; heteropentameric channels display faster channel closure (By similarity). Plays an important role in the down-regulation of neuronal excitability. Contributes to the generation of inhibitory postsynaptic currents (PubMed:15131310). Contributes to increased pain perception in response to increased prostaglandin E2 levels (PubMed:15131310). Plays a role in the regulation of breathing rhythm, especially of the duration of the postinspiratory phase (PubMed:20978350). Plays a role in cellular responses to ethanol (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222143