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Product datasheet for MR211529

Gucy2c (NM_145067) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gucy2c (NM_145067) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gucy2c
Synonyms:	AI893437; GC-C; Gcc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR211529 representing NM_145067
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGTCACTGCTGGGCTTGGCTGTGCGGTTACTGCTCTTCCAGCCCGCGCTGATGGTGTTCTGGGCCT
CTCAGGTGAGGCAGAACTGCCGCAATGGCAGCTACGAGATCAGCGTCCTGATGATGGACAACTCAGCCTA
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ACTGCCGGAGCAGCACCTGTGAAGGCCTTGACCTACTCAGGGAGATTACAAGAGATCATAAGATGGGCTG
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ATTGACGATGACAGGAGACGAGACACAATCCAGAGAGTGCGACAGTGCAAATACGACAAGAAGTTGCTGC
AGTCTGACTACTACAACCTGACTAAGTTCTACGGCACCGTGAAGCTGGACACCAGGATCTTTGGGGTGGT
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Protein Sequence:

>MR211529 representing NM_145067
Red=Cloning site Green=Tags(s)

MTSLLGLAVRLLLFQPALMVFWASQVRQNCRNGSYEISVLMMDNSAYKEPMQNLREAVEEGLDIVRKRLR
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MISAGSYGLSCDYKETLTRILPPARKLMYFLVDFWKVNNASFKPFSWNSSYVYKNGSEPEDCFWYLNALE
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SCWEEDPEKRPDFKKIESTLAKIFGLFHDQKNESYMDTLIRRLQLYSRNLEHLVEERTQLYKAERDRADH
LNFMLLPRLVVKSLKEKGIVEPELYEEVTIYFSDIVGFTTICKYSTPMEVVDMLNDIYKSFDQIVDHHDV
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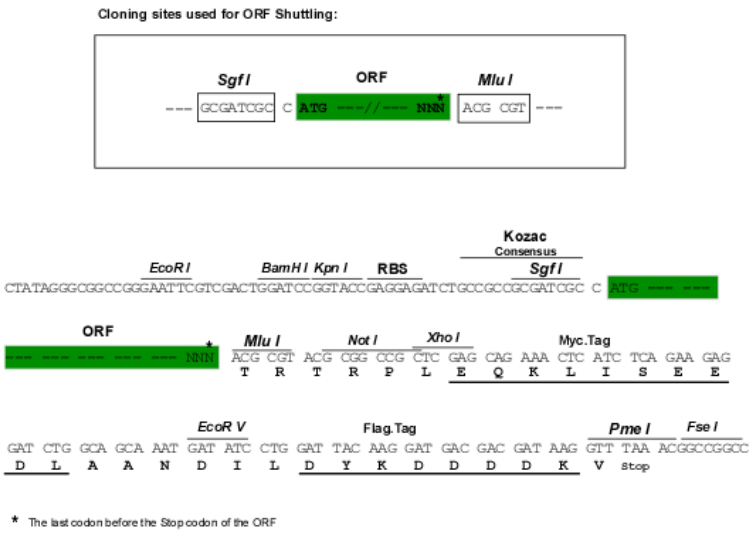
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9027_h05.zip

Restriction Sites: SgfI-MluI

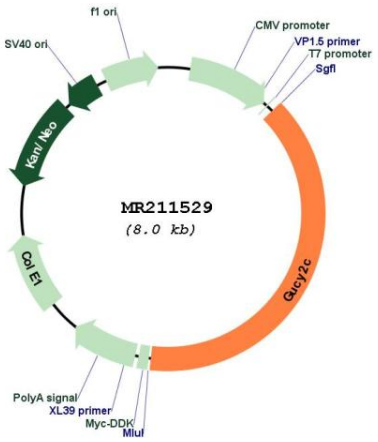
Cloning Scheme:



ACCN:	NM_145067
ORF Size:	3144 bp
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.
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_145067.3, NP_659504.2
RefSeq Size:	3879 bp
RefSeq ORF:	3147 bp
Locus ID:	14917
UniProt ID:	Q3UWA6

Cytogenetics:	6 66.67 cM
MW:	120.9 kDa
Gene Summary:	Receptor for the E.coli heat-stable enterotoxin (E.coli enterotoxin markedly stimulates the accumulation of cGMP in mammalian cells expressing GC-C). Also activated by the endogenous peptide guanylin (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211529