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Product datasheet for MG226442

Ggcx (NM_019802) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ggcx (NM_019802) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ggcx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG226442 representing NM_019802
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGTGCACCGCGGCTCCGCACTGGTTGCTCCCGCCTCAGATAAAGTACAGAAAAACAAGTCTGCAC
AGACATCAGGACTGAAACAGGGCAGCCGAATGGAGAAAATTTTAGGGTTTGAATGGACAGATTTATCTAG
CTGGCAGAGTGTCGTGACCCTGCTTAACAAACCAACGGACCCTGCAAACCTGGCTGTCTTTCGTTTTCTC
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TACTTCATCGCGGGTGTGAAGAAGCTCGATGCTGACTGGGTTGGGGGCTACTCCATGGAGCACCTGTCCC
GGCACTGGCTCTTCAGTCCCTTCAAGCTGGTGTTGTCGGAGGAGCTGACAAGCCTGCTGGTAGTACACTG
GTGTGGGCTTCTCCTTGACCTCTCGGCTGGCTTCCTGCTCTTCTTTGATGCCTCCAGACCCGTCGGCCTG
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CCAAGTTACAGGATATTAAGAGCAGTCTGGACAACCACACCGAGGTGGTCTTCATTGCAGATTTCCCTGG
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CTCTGGTCCAAACTTTTCTCAGACGACAGAGGAAGCTCCAAGAAATTGAACGCAGGCGAAATAGCCCTTT
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ATTTCACTCCGAAACCTGCTATTAGGCCGCCCTTCCCTAGAGCAACTAGCCCAAGAGGTGACATATGCAA
ACTTGCGACCATTTGAACCAGTTGATGAGTCAAGTGCTTCAAACACAGATTCTTCAAATCACCCGTCAGA
GCCAGATTCTGAGCATGTTCACTCTGAGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

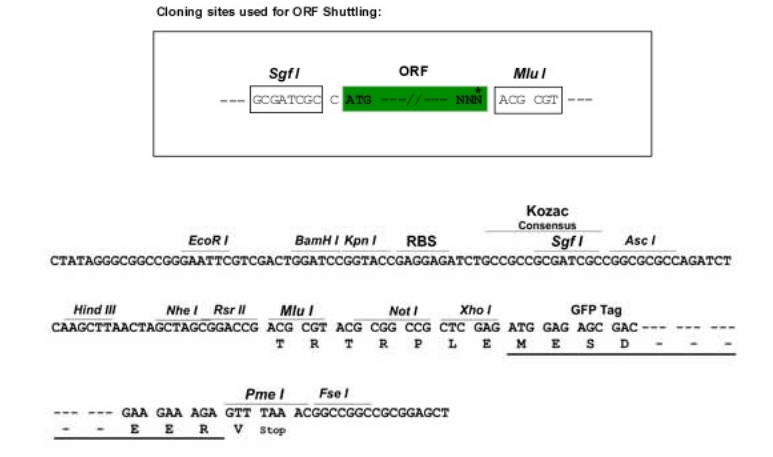
>MG226442 representing NM_019802
Red=Cloning site Green=Tags(s)

MAVHRGSALVAPASDKVQKNKSAQTSGLKQGSRMEKILGFEWTDLSSWQSVVTLLNKPTDPANLAVFRFL
FAFLMLLDIPQERGLSSLDRKYLDGLDVCRFPLLDALRPLPLDWMYLVYTIMFLGALGMMLGLCYRLSCV
LFLLPYWYVFLLDKTSWNNHSYLYGLLAFQLTFMDANHYWSVDGLLNARKKNAHVPLWNYTVLRGQIFIV
YFIAGVKKLDADWVGGYSMEHLSRHWLFSPFKLVLSEELTSLLVVHWCGLLLDLSAGFLLFFDASRPVGL
FFVSYFHCMNSQLFSIGMFPYVMLASSPLFCSAEWPRKLVARCPKRLQELLPTKAAPRPSASCVYKRSRG
KAGPKPGLRHQLGAIFTLLYLLEQLFLPYSHFLTQGYNNWTNGLYGYSWDMMVHSRSHQHVKITYRDGLT
GELGYLNPGVFTQSRRWKDHADMLKQYATCLSLLLPKYNVTEPQIYFDIWVSINDRFQQRLFDPRVDIVQ
AVWSPFQRTPWVQPLLMDLSPWRTKLQDIKSSLDNHTEVVFIADFPGLHLENFVSEDLGNTSIQLLQGEV
TVELVAEQKNQTLQEGEKMQLPAGEYHKVYTVSSSPSCYMYVYVNTTEVALEQDLAYLQELKEKVENGSE
TGPLPPELQPLLEGEVKGGPEPTPLVQTFLRRQRKLQEIERRRNSPFHERFLRFVLRKLYVFRRSFLMTR
ISLRNLLLGRPSLEQLAQEVTYANLRPFEPVDESSASNTDSSNHPSEPDSEHVHSEF

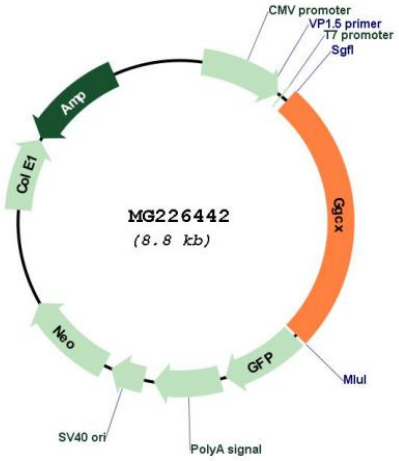
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_019802
ORF Size:	3320 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_019802.4
RefSeq ORF:	2274 bp
Locus ID:	56316

UniProt ID:	Q9QYC7
Cytogenetics:	6 C1
Gene Summary:	Mediates the vitamin K-dependent carboxylation of glutamate residues to calcium-binding gamma-carboxyglutamate (Gla) residues with the concomitant conversion of the reduced hydroquinone form of vitamin K to vitamin K epoxide.[UniProtKB/Swiss-Prot Function]