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Product datasheet for MG202583

Gins4 (NM_024240) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gins4 (NM_024240) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gins4
Synonyms:	2810037C03Rik; 4933405K01Rik; Sld5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG202583 representing NM_024240
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGGAGGTTCTGGATCTCCACGGACAGGACTCTGATGGGGGTAGTGAGGAGATGGTCCTAACTCCTG
CAGAGCTCATTGAAAAGCTGGAGCAGGCCTGGATGAATGAAAAGTTTGCCCCTGAGCTCCTGGAAAGCAA
GGCTGAGATTGTCGAATGCGTCATGGAACAGCTTGAGCACATGGAAGAAAATCTCAGAAGAGCCAAGAAG
GGGGATCTGAAGGTCAGCATCCATCGCATGGAGATGGAGAGGATCCGCTATGTCCTCAGCAGCTATTTGC
GGTGTCGACTCATGAAGATAGAGAAGTTTTTCCCTCACATCCTAGAAAAGGAGAAAGTGCGCAGTGAGGG
GGAGCCTTCCAGCCTGTCTCCAGAGGAGTTTGTCTTTGCCAAAGAGTATATGGACCACACGGAGACCCAC
TTTAAAAACGTTGCCTTAAAGCACATGCCTCCCAACCTGCAGAAGGTGGACCTCTTGAGGGCAGTTCCCA
AACCAGACCTAGATTCATACGTGTTTCTGCGAGTGAAAGAACGACAAGAAAACATACTAGTAGAACCAGA
AGCCGATGAGCAGAGAGACTACGTGATTGACTTGGAGGTGGGCTCACAGCACTTGATCCGATACAAAACC
ATCGCACCTCTTGTTGCTTCTGGAGCAGTTCAGCTAATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

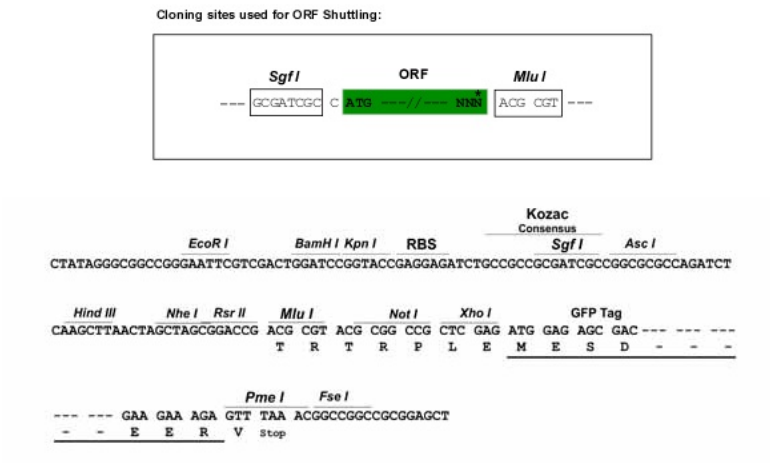
>MG202583 representing NM_024240
Red=Cloning site Green=Tags(s)

MTEVLDLHGQDSDGGSEEMVLTPAELIEKLEQAWMNEKFAPELLESKAEIVECVMEQLEHMEENLRRAKK
GDLKVSIHRMEMERIRYVLSSYLRCRLMKIEKFFPHILEKEKVRSEGEPSSLSPEEFVFAKEYMDHTETH
FKNVALKHMPPNLQKVDLLRAVPKPDLDSYVFLRVKERQENILVEPEADEQRDYVIDLEVGSQHLIRYKT
IAPLVASGAVQLI

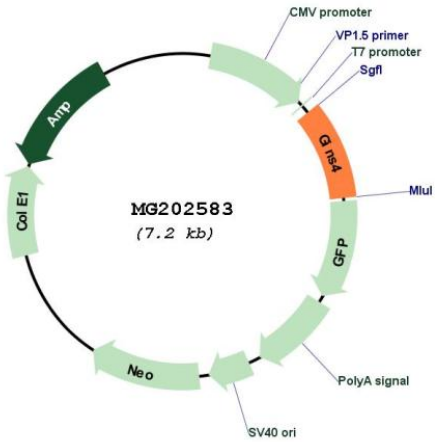
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_024240

ORF Size: 1361 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_024240.6, NP_077202.1
RefSeq Size:	1341 bp
RefSeq ORF:	672 bp
Locus ID:	109145
UniProt ID:	Q99LZ3
Cytogenetics:	8 A2
Gene Summary:	The GINS complex plays an essential role in the initiation of DNA replication, and progression of DNA replication forks. GINS4 is important for GINS complex assembly. GINS complex seems to bind preferentially to single-stranded DNA (By similarity).[UniProtKB/Swiss-Prot Function]