

Product datasheet for **MR210398**

Gtse1 (NM_001168672) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtse1 (NM_001168672) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gtse1
Synonyms:	B99; Gtse-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210398 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATGCTGGTAGTAAAAAGAAGACTTCTCTTTTGAAGATGAAAAATTTGACTTCGATCTTTCT
 TGTCTTCTCAAGCACAATGAAGATGACGAAGTCTTTTTGGCCTGTTGGACATAAAGAAAGATGCAT
 TGCTGCCAGTTTGGACTTAAACCGCCGGTTCCTGGGCAGCCTCTTGCCCGGGCTCTGGTAGCCCTTGC
 ACCTTGAGCCCTCACTGGGGAGAAGTTGTGGAGGTGTACAAAGAAGCCCACTTACTGGCCTTACAGA
 TAGAAAGTACAGCCGAAGAGAGGTGGCCAGGCTGCCACGCCCCAAAATCCTGTGAACAGGGCAAGGA
 AACGTTTGTGCAGGACTCACAGTAAAAGTAAGCCTCTTTGAGAAAGAACAGAAGAGAGACAGAAGTCCC
 ATGTCACTTAAAAGAGAGACATTCTGCCTGCCATCCCCGAGGGTGAACCGCCATGGGGGAGCCCCAGC
 TCCTGGCTTCTCCAGGCCTGCTCAGCTCCCTGTCTCAGCAGGCCCTGCTCAGACCCAGAGCAACCAGGG
 TCTGCCCTGTTCTCTCAGCCGTTGCCAAGAGAATCAAGTACCTCCAGCCTCCAAGTCAAGCTGGGCCCT
 CAAAAGAGGATCACAGCAAGCTCCAGCCACCCCGGGCTTTGCCTGTGAGAGGAAGAAACCTTCACTGG
 CTACAGAGAAGCTCAAAAAGAGGTGCCAGCCAGCCTTACAGAGGACGAAACTCATGAATGAAAAGGGATC
 CCAGAGTGACGTGCTCCAGGACAAAACCCAGCACAGCTCCAGATGCTGCCGGTCGAGAAGGCCACCCAGGC
 AAGCGGTCACTCCCCATTCTGGCAAGTTGGGGCTAAAGAAGACCCTGTTAAAGCCACCTGGCTATACTG
 GCAATCTCACAAGGAAGTCTCTACCTCAGGGTCTGCTTCAAGCCTCGAGTCTGGTGTCTACAGGTCTTC
 AGTAGCAGGCAAAGCAAAGTCCAGTGAACAACGTTCAAGTATTCTGCTAGCGGCTCCAGCGTCGGACG
 AGTACCAGCAAAGTCAGGCAGAATAGGACCCGCCGCTCACGCCAGGCTTTGCCAGCAGCCCTGCCAGGG
 TTTTGGCAGACAAGCCAATAAGGCTGATGCTGCCAGACAGTGGCTGAGCAGCCCAAGTCCCCACCT
 GATTCTCCTCACCAACAACCCAGACTCCAGAGCAAAGAGGACCAAGGCTGGACCCCGACACCGAGACA
 CCTCAGTTGAATAAAACGGTCAGCATAAAAACGACGGGACTCCTATCTGAGCTGCAAGACAGAGGCCGTGT
 CTACCACAACGAACCCATTTAAAGTGCCCCAGTTTCTGTTGGCGAGTCACCTGGAGGAGTAACCCCAA
 GTTCTCACGGACACATCGGCTGCAGTCTGGACACCAGCAAGCAGGGTGGTCAGCAGCACTCCTGTGAGA
 CGCTCATCAGGGACTACTCCACAAGGCCTGCCCGCAGTATGAGGACCCCTCTGAGCACAAGACGGATGT
 CAGTGTGCTACACCTGCCAGTCGGCTCTCTCCAGCCTTCCATTAATGGCACCTCAGTCCATGCCAG
 GGCTCTGGTGTCCCCTGTGTGTGCTGCCCGGCGACTCTCATCTGAGCCAGGAGAAGATCTACAGTC
 AGAGCAGAGCTGACGCAGGAGAGCAGCGGCAGCGCAGTGGTGGCAGGCCAGGGCCTGTCTCAGATG
 AGAGCTTCCCCCTCCATCCTCGGTGCCTCAAGCACTTAACCTTTCTCCAGAGAAGAGTGCCTCCCCCTC
 TCCCCAAGGCTCCTCCACAGGAGCAGCTCAGGGTGAAGCAGAGCCTCCTGAAGACACGCTGCCAGTGAG
 GTGCATGGAGGTGGTTGCAGCCACACGCCATCTGAGGGTCTTCTCCTGGACCTCAAGCTGGACCAGCTCA
 CCATCACCCCTGAAGCAGGAGGCAGAGACCTGGCCGACTGCCCTCTCATCGACTCAGCAACACCCCTGA
 GTCGAACACGGCCTTGGGGCCTAGCAGCTGGCCCTGATTGACCTATAATGAACACTCCAGACATGGGT
 AGAAATGATGTGGGAAGCCTGCAAAGGCTGAGCTGGCCAGCTGATCGACCTGGGCTCCCCACTGATCC
 AGCTGAGCCCTGAGGCTGACAAAGAGAAGCTGGACTCACCGCTTCTCAAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210398 protein sequence
Red=Cloning site Green=Tags(s)

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MDAGSKKEDFLLEDEKFDLFDLSLSSSSTNEDDEFFGVPVGHKERCIAASLDLNRVPGQPLAPGSGSPC
TLSPLTGEKFVEVYKEAHLALQIESHSRREVAQAATPQNPNVQKETFVQDSQLKVSLFEKEQKRDRSP
MSLKRETFCLPSRVQPPMGEPQLLASPGLLSSPVSAGPAQTQSNQGLPCSSQPLPRESSTSQPPSQAGP
QKRITSKLQPPRALPVRGRNLHLATEKLKKEVPASLQRTKLMNEKGSQSDVLDQKPSTAPDAAGREGHPG
KRSLPIPGLGLKKTLLKPPGYTGNLTRKSSTSGSASSLESVYRSSVAGKAKSSEQRSSIPASGSQRRT
STSKSGRIGPAASRQALPAAPARVFRGRQANKADAAQTVAEQPKVPTLILLTQQPQTPEQRGPRLDPTET
PQLNKTVSIKRRDSYLSCKTEAVSTTTNPFKVPQF SVGESPGGVTPKFSRTHRLQSWTPASRVSSSTPVR
RSSGTTQGLPGSMRTPSTRRMSVLPASRRLSSLPLMAPQSMPRALVSPLCVPARRLSSEPRRRSTV
RAELTQESSGSGGGQAQGLSSESSPPSSVPQALNFSPEKSASPPPQGSSTGAAQGEAEPEDTLPSE
VHGGGCSHTPSEGLLLDLKLDQLTITPEAGGRDLADCPLIDFSNTPESENTALGPSSWPLIDLIMNTPDMG
RNDVGGKPAKAEQGQLIDLGSPLIQLSPEADKENVDSPLLLKF
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001168672

ORF Size: 2226 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_001168672.1](#), [NP_001162143.1](#)

RefSeq Size: 2737 bp

RefSeq ORF: 2226 bp

Locus ID: 29870

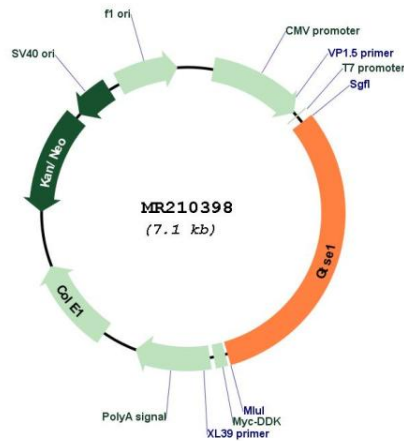
UniProt ID: [Q8R080](#)

Cytogenetics: 15 40.42 cM

MW: 78.8 kDa

Gene Summary: May be involved in p53-induced cell cycle arrest in G2/M phase by interfering with microtubule rearrangements that are required to enter mitosis. Overexpression delays G2/M phase progression.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210398