

Product datasheet for **MR210235**

G2e3 (NM_001015099) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G2e3 (NM_001015099) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	G2e3
Synonyms:	6030408C04Rik; 9030416F18; AW046379; D930034K21Rik; mKIAA1333
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MR210235 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**

ATGAATGAAAATAAACCTGATAATTCACAAAGTCTTGCTTGTTTCTGCCGAAAAATGATGACTGTC
 CCAATAAATACGGAGAAAAGAAAACATATGAAAAATGGAATTTTGTGTCCACTACTACTGCTTGTAAAT
 GTCAAGTGGAATTTGGCAGAGAGGTAAAGAAGAAGAAGGAGTTTATGGCTTCCTAATAGAAGACATCAGG
 AAGGAAGTCCAGAGAGCCTCCAACTGAAGTGTACAGTTTGCAAGAAGAATGGTGCTTCAATTGGATGTG
 TGGTACCCACGTGTAACGAAGTTATCACTTGCCTTGCGACTTCAGAAAGAATGATTTTCCAGTTTAC
 TGACAATTTTGCCTCATTTTCTGGAACATCGACCCGTTCAAGCAATTACATCTAATAAATATAGTAGT
 TCTTTACCATGTACTATCTGTTTGAATTTGTCGAGCCTATTCCTACTTATAACATACTACAAAGTCCCT
 GTTGTAAGAATGCTTGGTTTCATAGAGACTGTTTACAGGTCCAAGCAATAAATGCAGGAGTGTTTTCTT
 TAGATGTACACTATGCAATAATACAGACATCTTTCAGAAGGAGATGTTGAGAATGGGAATTCATATTCCT
 GAAAAAGATGCATCCTGGGAATTAGAAGAAAACGCGTATCAAGAGCTGCTGCAGAGCCACGACCGCTGTG
 ATATTCGAAGATGTCACTGCAAAAAAGGCCGAGACTACAACGAACCTAACAGCAATGGGAAGTAAAGCG
 GTGTGAGAGTTGTGGTTCTAGTGAACACACTTAGCCTGTTTCTCACTACAGTCTTGGGAACAAAATTGG
 GAGTGTGGGACTGTAGAAGAATTACCTACACTTCAGATTTCCAAAAGGCCCCCAACACCCATTAGCCA
 ACTCTACTAATGTGACAGTTACTGACTGCTTGTGGAAGAGTCATCATCTAAGCTCCCCAGACAGTCAAC
 TGTAGCCAGCATAAAGAACTACTGAGGCAAGGCAGCAAAATTTAGGAGAGACATTTCAACAATATTGATA
 GAGTTAGGATTCAAAATTAAGAAAGAACTAAGACATTATACATCAACAAAGCCAATGTGTGGAGGAGTG
 CCTTAGAGCAGTTCAGAGCCAGAAGTTTAACCTTCATGCTCCATTGACGTAGTGTATGTTAATGGCAA
 TGAGGTTGGAAGCCAGCATCTTGGATCAAAGCAGGAATTTCTGAGTCACTTAATGCACCATCTTGAGAAT
 TCATCAGTGTTTGAAGGGTCCTTGGCAAAGAACTTGCTCTCTAAATTCCTCAAGCTGTGAAAGAGAATCTTT
 ACTATGAAGTTGGCAAAATGCTTGCCATTTCTTTAGTTCATGGTGGTCTTCGCTGTTTCTTTCTGA
 AACCTTGTTAACTGCCTTGCTTATGGACCAGAAAATACTCTACCAACTTTGGATGATGTATCAGACATT
 GATGTTGCACAGATTATAATCAAGATAGATTCTGCAACTGATTTAAACATTTTAAATTCAGTAATAAGCC
 AACACTATAACTACTTAGAGGTCAGTGGATGTTTAAAGACTTACGACATCATTAAAGTATAAATTCATGTT
 GGTAAAAGACATCCTTTTCTACCATGTAATTAATAGAGTCAAGGCACCTTTTGAAGTTTTAAACAGGGT
 CTGAAAACGCTTGGTGTGTTTGAAGAAATTCAACTTACCCAGAAGCATTTTATAAGATCCTATGTCATA
 AACCTGAGAATCTCTCTGCAAAAAACCTCAGTGACCTCTTCACAATTCCTCGGTAGCGGACGTACAGAC
 TTTGAGGTTTTGGAACAGTTACTTAAAGGCTATAGAGGATGGTAAATCTGCAACAACGATGGAAGATATT
 CTTATTTTGAACCTGGCTGTAGTTCTGTCCCACCACTGGATTTAAACCCTCTCTGTGCTGATGATGTC
 TACATGTGGATTTTCTGTTGCAGACAAATATAGAAACCATTTAGTCTACCAGCCACCAACGCGTATGA
 AGAGTTCCAAGAAAATATGGATTTACCATAAGAGACACTCTAAGATTAGAAAAGGAAGAAGGTCTCAC
 ATACTACCTCGGACATTAATGTTTCTTCTAATGAAGAAATGCTTATT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

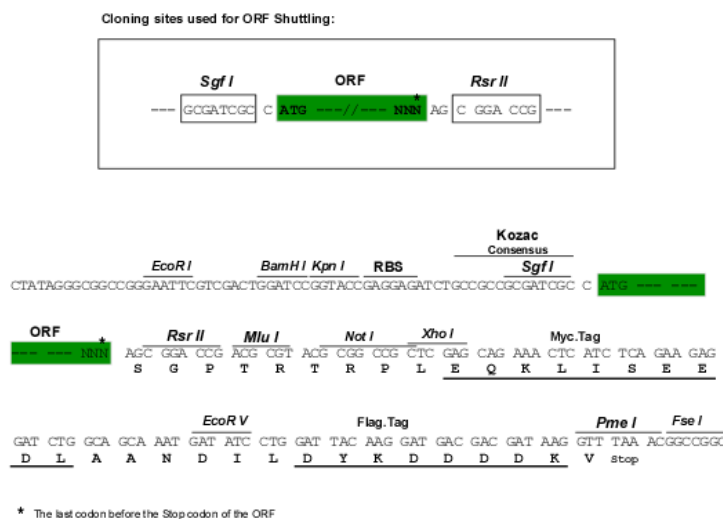
Protein Sequence: >MR210235 protein sequence
 Red=Cloning site Green=Tags(s)

MNENKPDNSQSLACVFCRKNDDCPNKYGEKKTIEKWNFSVHYCYLLMSSGIWQRGKEEGVYGLIEDIR
 KEVQRASKLKCTVCKNGASIGCVVPTCKRSYHLPCGLQKECIFQFTDNFASFCWKHRPVQAITSNKYSS
 SLPCTICLEFVEPIPTYNILQSPCKNAWFHRDCLQVQAINAGVFFRCTLNNTDIFQKEMLRMGIIHIP
 EKDASWELEENAYQELLQSHDRCDIRRHCKKGRDYNENPSKWEVKRCQSCGSSGTHLACSSLQSWEQNW
 ECLDCRRITYTSDFKAPKHPLANSTNVTVDCLLEESSKLPRQSTVAQHKELLRQGSKFRRDISTILI
 ELGFQIKKKTLYINKANVWRSALQEQSQKFNPSCSIDVVYVNGNEVGSQHLGSKQEFLLSHLMHLEN
 SSVFEGSLAKNLSLNSQAVKENLYYEVGKMLAISLVHGGPSPGFFSETLFCNCLAYGPENTLPTLDDVSDI
 DVAQIIKIDSATDLNLSVISQHYNYLEVSGCLRLTSLSDKFMLVKDILFYHVINRVKAPFESFKQG
 LKTLGVLEKIQTYPEAFYKILCHKPENLSAKNLSLFTIHSVADVQTLRFWNSYLKAIEDGKSATTMEDI
 LIFATGCSSVPPTGFKPSLSVECLHVDFFVADKYRNHLVLPATNAYEEFQENMDFTIRDLRLEKEERSH
 ILPRTLNVSSNEEMI

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001015099

ORF Size: 2148 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001015099.1](#), [NP_001015099.1](#)

RefSeq Size: 6634 bp

RefSeq ORF: 2151 bp

Locus ID: 217558

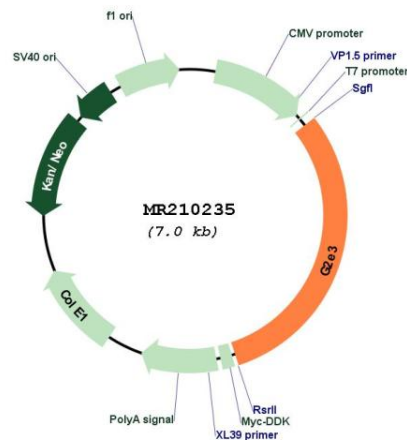
UniProt ID: [Q5RJY2](#)

Cytogenetics: 12 B3

MW: 81.8 kDa

Gene Summary: E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates (By similarity). Required for prevention of apoptotic death in early embryogenesis.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210235