

## Product datasheet for **MC219864**

### **G2e3 (NM\_001167964) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	G2e3 (NM_001167964) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	G2e3
Synonyms:	6030408C04Rik; 9030416F18; AW046379; D930034K21Rik; mKIAA1333
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >MC219864 representing NM\_001167964  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAATGAAAATAAACCTGATAATTCACAAAGTCTTGCTTGTGTTTTCTGCCAAAAAATGATGACTGTC  
CCAATAAATACGAGAGAAAAGAAAACATATGAAAAATGGAATTTTGTGTCCTACTACTGCTTGTAAAT  
GTCAAGTGGAAATTTGGCAGAGAGGTAAAGAAGAAGAAGGAGTTTATGGCTTCTAATAGAAGACATCAGG  
AAGGAAGTCCAGAGAGCCTCAAAGTGAAGTGTACAGTTTGAAGAAGAATGGTCTTCAATTGGATGTG  
TGGTACCCACGTGTAACGAAGTTATCACTTGCCTTGTGGACTTCAGAAAAGATGATTTTCCAGTTTAC  
TGACAATTTTGCCTCATTTTGTGGAACATCGACCCGTTCAAGCAATTACATCTAATAAATATAGTAGT  
TCTTTACCATGTACTATCTGTTTGGAAATTTGTCGAGCCTATTCTACTTATAACATACTACAAAGTCCCT  
GTTGTAAGAATGCTTGGTTTCATAGAGACTGTTTACAGGTCCAAGCAATAAATGCAGGAGTGTGTTTTCTT  
TAGATGTACACTATGCAATAATACAGACATCTTTCAGAAGGAGATGTTGAGAATGGGAATTCATATTCCT  
GAAAAAGATGCATCCTGGGAATTAGAAGAAAACGCGTATCAAGAGCTGCTGCAGAGCCACGACCCGCTGTG  
ATATTCGAAGATGTCCTGCAAAAAAGGCCGAGACTACAACGAACCTAACAGCAATGGGAAGTAAAGCG  
GTGTCAGAGTTGTGGTTCTAGTGAACACACTTACGCTGTTTCTCACTACAGTCTTGGGAACAAAATTGG  
GAGTGTGTTGGACTGTAGAAGAATTACCTACACTTACAGATTTCCAAAAGGCCCCCAACACCCATTAGCCA  
ACTCTACTAATGTGACAGTTACTGACTGCTTGTGGAAGATCATCATCTAAGCTCCCCAGACAGTCAAC  
TGTAGCCAGCATAAAGAAGTACTGAGTTTATTTTATCTGTATTTACAGCTGTGAAAGAGAATCTTTAC  
TATGAAGTTGGCAAAATGCTTGCCATTTCTTTAGTTTATGTTTATGTTTATGTTTATGTTTATGTTTATGTTT  
CCTTGTAACTGCCTTGCTTATGGACCAGAAAATACTCTACCAACTTTGGATGATGATCAGACATTGA  
TGTTGCACAGATTATAATCAAGATAGATTCTGCAACTGATTTAAACATTTTAAATTCAGTAATAAGCCAA  
CACTATAACTACTTAGAGGTCAGTGGATGTTTAAAGACTTACGACATCATTAAAGTATAAATTCATGTTGG  
TAAAAGACATCCTTTTCTACCATGTAATTAATAGAGTCAAGGCACCTTTTGGAGTTTTAAACAGGGTCT  
GAAAACGCTTGGTGTGTTTATAGAGAAAATCAAACCTTACCCAGAAGCATTATAAGATCCTATGTCATAAA  
CCTGAGAATCTCTGCAAAAAACCTCAGTACCTTTCACAATTCACCTCGGTAGCGGACGTACAGACTT  
TGAGGTTTTGGAACAGTTACTTAAAGGCTATAGAGGATGGTAAATCTGCAACAACGATGGAAGATATTCT  
TATTTTGAACACTGGCTGTAGTTCTGTCCCAACTGGATTTAAACCCTCTCTGTCAGTTGAATGTCTA  
CATGTGGATTTTCTGTTGCAGACAAATATAGAAACATTTAGTTCTACCAGCCACCAACACGTATGAAG  
AGTTCCAGAAAATATGGATTTACCATAAGAGACACTCTAAGATTAGAAAAGGAAGAAAGGTCTCACAT  
ACTACCTCGGACATTAATGTTTCTTCTAATGAAGAAATGCTTATT**TAA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_001167964

**Insert Size:** 1869 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001167964.1](#), [NP\\_001161436.1](#)

**RefSeq Size:** 6352 bp

**RefSeq ORF:** 1869 bp

**Locus ID:** 217558

**UniProt ID:** [Q5RJY2](#)

**Cytogenetics:** 12 B3

**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]

Transcript Variant: This variant (3) is missing an internal coding exon and uses an alternate acceptor splice site at another coding exon compared to variant 1. However, it retains the reading frame and encodes a shorter isoform (3) lacking an internal protein segment compared to isoform 1.