

Product datasheet for **MG223648**

G2e3 (NM_001167964) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G2e3 (NM_001167964) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	G2e3
Synonyms:	6030408C04Rik; 9030416F18; AW046379; D930034K21Rik; mKIAA1333
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223648 representing NM_001167964
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATGAAAATAAACCTGATAATTCACAAAGTCTTGCTTGTGTTTTCTGCCAAAAATGATGACTGTC
 CCAATAAATACGGAGAAAAGAAAACATATGAAAAATGGAATTTTGTGTCCTACTACTGCTTGTAAAT
 GTCAAGTGGAAATTTGGCAGAGAGGTAAGAAGAAGAAGGAGTTTATGGCTTCTAATAGAAGACATCAGG
 AAGGAAGTCCAGAGAGCCTCAAACCTGAAGTGTACAGTTTGAAGAAGAATGGTCTTCAATTGGATGTG
 TGGTACCCACGTGTAACGAAGTATCACTTGCCTTGTGGACTTCAGAAAGAATGATTTTCCAGTTCAC
 TGACAATTTTGCCTCATTTTGTGGAACATCGACCCGTTCAAGCAATTACATCTAATAATATAGTAGT
 TCTTTACCATGTACTATCTGTTTGAATTTGTCGAGCCTATTCTACTTATAACATACTACAAGTCCCT
 GTTGTAAAGATGCTTGGTTTCATAGAGACTGTTTACAGGTCCAAGCAATAAATGCAGGAGTGTTCCTT
 TAGATGTACACTATGCAATAATACAGACATCTTTCAGAAGGAGATGTTGAGAATGGGAATTCATATTCCT
 GAAAAAGATGCATCTGGGAATTAGAAGAAAACCGGTATCAAGAGCTGCTGCAGAGCCACGACCGCTGTG
 ATATTCGAAGATGCTACTGCAAAAAAGGCCGAGACTACAACGAACCTAACAGCAAATGGGAAGTAAAGCG
 GTGTCAGAGTTGTGGTTCTAGTGGAAACACACTTAGCCTGTTTCTCACTACAGTCTTGGGAACAAAATTGG
 GAGTGTGGACTGTAGAAGAATTACCTACACTTCAGATTTCCAAAAGGCCCCCAACCCATTAGCCA
 ACTCTACTAATGTGACAGTTACTGACTGCTTGTGGAAGAGTCATCATCTAAGCTCCCAGACAGTCAAC
 TGTAGCCAGCATAAAGAAGTACTGAGTTATTTTTATCTGTATTTACAGCTGTGAAAGAGAATCTTTAC
 TATGAAGTTGGCAAAATGCTTGCATTTCTTTAGTTTATGGTGGTCTTCGCCTGGTTTCTTTCTGAAA
 CCTTGTAACTGCCTTGTCTTATGACCAGAAAATACTCTACCAACTTTGGATGATGTATCAGACATTTGA
 TGTGACAGATTATAATCAAGATAGATTCTGCAACTGATTTAAACATTTTAAATTCAGTAAATAAGCCAA
 CACTATACTACTTAGAGGTCAGTGGATGTTTAAAGACTTACGACATCATTAAAGTATAAATTCATGTTGG
 TAAAAGACATCCTTTTCTACCATGTAATTAATAGAGTCAAGGCACCTTTTGGAGTTTTAAACAGGGTCT
 GAAAACGCTTGGTGTGTTTAGAGAAAATCAAACCTACCCAGAAGCATTATAAGATCCTATGTCATAAA
 CCTGAGAATCTCTGCAAAAAACCTCAGTGACCTTTCACAATTCCTCGGTAGCGGACGTACAGACTT
 TGAGGTTTTGGAACAGTTACTTAAAGGCTATAGAGGATGGTAAATCTGCAACAACGATGGAAGATATTCT
 TATTTTTGCAACTGGCTGTAGTTCTGTCCACCAACTGGATTTAAACCCTCTCTGTCAGTTGAATGTCTA
 CATGTGGATTTTCTGTTGCAGACAAATATAGAAACCATTTAGTTCTACCAGCCACCAACACGTATGAAG
 AGTTCCAAGAAAATATGGATTTACCATAAGAGACACTCTAAGATTAGAAAAGGAAGAAAGTCTCACAT
 ACTACCTCGGACATTAATGTTTCTTCTAATGAAGAAATGCTTATT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223648 representing NM_001167964
 Red=Cloning site Green=Tags(s)

MNENKPDNSQSLACVFCRKNDDCPNKYGEKTYEKNFVSVHYCLLMSSGIWQRGKEEGVYGFLEDIR
 KEVQRASKLKCTVCKKNGASIGCVVPTCKRSYHLPCGLQKECIFQFTDNFASFCKWHRPVQAITSNKYSS
 SLPCTICLEFVEPIPTYNILQSPCKNAWFHRDCLQVQAINAGVFFFRCTLCNNTDIFQKELRMGIHIP
 EKDASWELEENAYQELLQSHDRCDIRRHCKKGRDYNPNKWEVKRCQSCGSSGTHLACSSLQSWEQNW
 ECLDCRRITYTSDFQKAPKHPLANSTNVTVDCLLEESSKLRQSTVAQHKELLSLFLSVFTAVKENLY
 YEVGKMLAISLVHGGPSPGFFSETLFLNCLAYGPENTLPTLDDVSDIDVAQIIKIDSATDLNILNSVISQ
 HYNYLEVSGCLRLLTSLSDKFMLVKDILFYHVINRVKAPFESFKQGLKTLGVLEKIQTYPFAFYKILCHK
 PENLSAKNLSDLFTIHSVADVQTLRFWNSYLKAIEDGKSATTMEDILIFATGCSSVPPTGFKPSLSVECL
 HVDFPVADKYRNHLVLPATNTYEEFQENMDFITRDLRLEKEERSHILPRTLNVSSNEEMI

SGPTRRRLE - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:


ACCN: NM_001167964

ORF Size: 1866 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_001167964.1](#), [NP_001161436.1](#)
RefSeq Size: 6352 bp

RefSeq ORF: 1869 bp

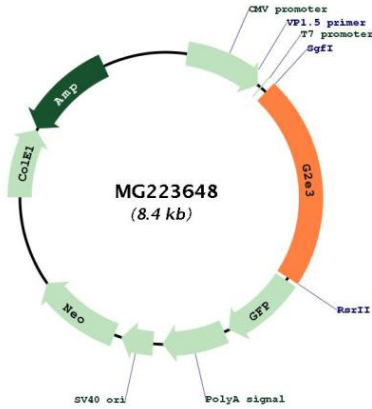
Locus ID: 217558

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]

Product images:



Circular map for MG223648