

## Product datasheet for **MG209823**

### **D14Ertd231e (BC055700) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	D14Ertd231e (BC055700) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	D14Ertd231e
Synonyms:	BC028953; D14Ertd231e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209823 representing BC055700  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAACTGTATTGCCTGTCAGGGCACCCAACCTTACCATGCAACGTA CTCAAATCAAATCCACTACTA  
 TTATGTTGGACTGTGGACTGGACATGACTTCCACCCTCAATTTCCCTCCCTTTGCCTTTGTTCAAAGCCC  
 CAGGCTATCTAATCTTCCCGGATGGTCTCTAAAAGACGGAATGCTTTTTTGGACAAGGAGCTAAAAGAG  
 TGCTCCGGTCATGATTTGTGGATTCTGTGCCTGAATTCTGCTTACCAGAGACCGAGCTAATAGACCTGT  
 CTACAGTCGATGTGATCCTCATCTCTAACTACCCTGCATGATGGCGCTGCCCTACATCACCGAGCACAC  
 AGGATTCACAGGCACAGTGTATGCCACAGAACCACCATGCAGATCGGCAGGCTTCTCATGGAAGAGCTG  
 GTGAATTCATCGAAAGAGTGCCAAAGGCCAGTCTGCCTCCTTGTGGAAGAATAAGGATATACAGCGGC  
 TGCTGCCTTCTCCCTCAAGGATGCAGTGAAGTGTCAACCTGGAGAAGATGCTACACGATGCAGGAGGT  
 GAACTCGGCCCTCAGTAAAATCCAGCTGGTGGGATATCCAGAAAATCGAGCTGTTTGGTGTGTCCAG  
 GTGACCCCTCTGAGCTCTGGCTATGCCCTTGAAGCTCCAACCTGGATTATCCAGTACATTATGAGAAA  
 TATCTTACGTCTCTGGATCCTCCTTGTACCACACACCCCTCAGCCCATGGACCAAGCTTCTCTAAAAA  
 CAGTGACGTTCTGATTCTCACAGGGCTGACACAGATCCCTACTGCAAACCCGGACGGCATGGTGGGCGAG  
 TTCTGCAGCAACCTCGCTCTGACAGTTCGGAATGGAGGAAACGTGTTGGTCCCTTGCTATCCTTCAGGCG  
 TGATCTATGACCTCCTGGAGTGTATATCAATACATTGACTCCGCTGGCTCTCCAACATCCCTTTCTA  
 CTTTCATCTCCCCGTTGCCAACAGTTCACTCGAGTTTTCCAGATTTTTGCTGAGTGGCTTTGTCAACA  
 AACAGAGTAAAGTTTACCTCCCAGAACCACCTTTCCACATGCAGAGCTCATTACAGACGAATAAGCTGA  
 AGCACTACCGCAGCATCCACGGTGACTTCAGCAATGACTTCAGACAGCCGTGTGTCTGTTACCCGGACA  
 TCCTTCCCTCCGCTTTGGGGACGTCTCACTTCATGGAGCTCTGGGGGAAGTCCAGCCTCAACACCATC  
 ATATTCACAGAACCCGATTTCTCTACCTGGAGGCCTTGCTCCTTACCAGCCGCTGGCCATGAAGTGCA  
 TCTACTGCCCAATTGACTCTGACTGAATTTTCATCCAGGTGTCAAAGCTGCTTAAAGAAGTACAGCCCT  
 GCACGTGGTCTGTCTGAGCAGTACACCCAGCCACCGCCAGCCAGGCCACAGGATGGACCTCATGATC  
 GACTGCCAGCCACCAGCCATGCTCTATCGACGGGCTGAGGTCCTTGCCCTGCCCTCAAACGACGCTATG  
 AGAAAATTGAAATCATGCCAGAGCTGGCAGACTCCCTGGTGGCCATGGAAATCAAGCCTGGCATCTCCTT  
 GCGGACTGTCTCAGCTGTGCTGCATACGAAGGATAACAAACATGTGCTTACAGCCCCCTCCAAGCCACC  
 CAGCCCACCAGCAGTAAGAAGAGGAAGCGGGTGAACGAGGACATTCTGACTGCAAAGTACTGAAGCCTC  
 TGCTGAGTGGCTCCATCCCGTAGAGCAGTTTGTGCAGACCCTGGAGAAGCATGGCTTCACTGACATTAA  
 GGTGGAAGACACAGCCAAGGGACATATTGCTCTGCTGCAGGAAGCCGAGACACTCATCCAGATTGAAGAA  
 GACTCCACTCACATCTGTGACAATGACGAGACTGAGGGTCCGACTGCGGGACCTTGTCTCAGGT  
 TCCTGCAGAAAGTTC

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG209823 representing BC055700  
 Red=Cloning site Green=Tags(s)

```

MKLYCLSGHPTLPCNVLFKFKSTTIMLDCGLDMTSTLNFLPLPLVQSPRLSNLPGWSLKDGNFLDKELKE
CSGHVFDVSVPEFCLPETELIDLSTVDVILISNYHCMALPYITEHTGFTGTVYATEPTMQIGRLLMEEL
VNFIERVPKAQSASLWKNKDIQRLLPSPKDAVEVSTWRRRCYTMQEVNSALSKIQLVGYEQKIELFGAVQ
VTPLSSGYALGSSNWI IQSHYEKVSYSVSGSSLLTTHPQPMQASLKNSDVILITGLTQIPTANPDGMVGE
FCSNLALTVRNGGNVLPVPCYPSGVIYDLECLYQYIDSAGLSNIPFYFISPVANSSLEFSQIFAEWLCHN
KQSKVYLPPEPPFPHAE LIQTNKLKHYRSIHGDFSNDFRQPCVLFTHGHPSLRFGDVVHFMELWGKSSLNTI
IFTEPDFSYLEALAPYQPLAMKCIYCPIDTRLNFIQVSKLLKEVQPLHVVCPEQYQPPPAQAHRLDLMI
DCQPPAMSYRRAEVLALPFKRRYEKIEIMPELADSLVPMEIKPGISLATVSAVLHTKDNKHVLQPPPKPT
QPTSSKKRKRVEDIPDCKVLKPLLSGSIPVEQFVQTLKHFSDIKVEDTAKGHIVLLQEAE TLQIEE
DSTHIICDNDETLRVRLRDLVLRFLQKF
  
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TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC055700

**ORF Size:** 1976 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:** [BC055700](#), [AAH55700](#)

**RefSeq Size:** 2414 bp

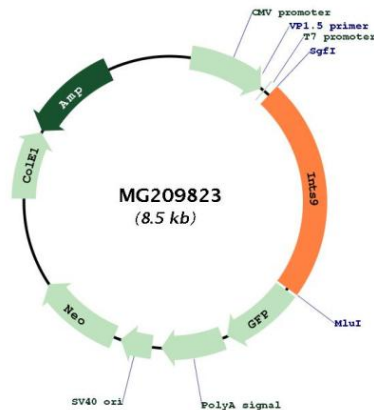
**RefSeq ORF:** 1976 bp

**Locus ID:** 210925

**Cytogenetics:** 14 33.81 cM

**Gene Summary:** Component of the Integrator (INT) complex, a complex involved in the small nuclear RNAs (snRNA) U1 and U2 transcription and in their 3'-box-dependent processing. The Integrator complex is associated with the C-terminal domain (CTD) of RNA polymerase II largest subunit (POLR2A) and is recruited to the U1 and U2 snRNAs genes. Mediates recruitment of cytoplasmic dynein to the nuclear envelope, probably as component of the INT complex. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG209823