

Product datasheet for **MG201597**

D2Wsu81e (BC078441) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: D2Wsu81e (BC078441) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: D2Wsu81e
Synonyms: 9930028P05; AL033358
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201597 representing BC078441
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGAAACTGGAGCGGCAGCGTGCCCAAGAGGAAGAGGCTAAACGCCAGGAAGAGGAGGAAGAGGCGG
 CGGCCAGAGGAGCAACCAAGGACGGCCTTACACTCTGAGTGTGGCCCTGCCAGGCTCCATCCTGGACAA
 TGCCAGTCACCTGAGCTCCGCACCTACCTGGCTGGCCAGATCGCCAGAGCCTGCACCATCTTCTGTGTG
 GATGAGATTGTGGTGTTCGATGAGGAGGCCAAGATACCAAGAGTGTGGAAGGAGAATTCAGGGGAGTTG
 GCAAGAAAGGGCAGGCATGTGTCCAGCTGGCCCGCATCCTACAGTACCTGGAGTGTCCACAGTACCTGAG
 AAAGGCGTTCTTCCCAAGCACCAAGATCTGCAGTTTGCAGGAATCCTCAACCCCTTGGACAGCCCTCAC
 CACATGCGTCAGGACGAAGAGTCTGAGTTTCGAGAAGGCGTCGTGGTGGACCGGCCACCAAGGCAGGCC
 ATGGCTCTTTGGTCAACTGTGGAATGAAGAAGCTTCTCTTCAGGAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201597 representing BC078441
 Red=Cloning site Green=Tags(s)

MKKLERQRAQEEAAKRQEEEEAAAQRSNQGRPYTLSVALPGSILDNAQSPELRTYLAGQIARACTIFCV
 DEIVVFDEEGQDTKSVEGEFRGVGKKGQACVQLARILQYLECPQYLKRAFFPKHQDLQFAGILNPLDSPH
 HMRQDEESEFREGVVDRPTKAGHGLVNCGMKLLFRR

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: BC078441

ORF Size: 539 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: [BC078441](#), [AAH78441](#)

RefSeq Size: 2440 bp

RefSeq ORF: 539 bp

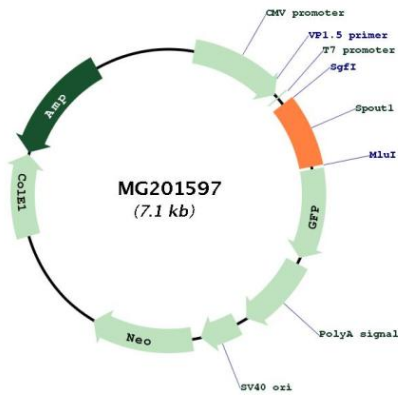
Locus ID: 227695

Cytogenetics: 2 21.29 cM

Gene Summary:

Required for association of the centrosomes with the poles of the bipolar mitotic spindle during metaphase. Also involved in chromosome alignment. May promote centrosome maturation probably by recruiting A-kinase anchor protein AKAP9 to centrosomes in early mitosis. Binds specifically to miRNA MIR145 hairpin, regulates MIR145 expression at a postranscriptional level (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG201597