Resource Summary Report

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XA8400

RRID:WB-STRAIN:WBStrain00040639
Type: Organism

Proper Citation

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Organism Information

URL: http://www.wormbase.org/db/get?name=WBStrain00040639

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Description: Caenorhabditis elegans with name qaIs8400. from WB.

Species: Caenorhabditis elegans

Synonyms: qaIs8400.

Notes: qaIs8400 [let-858p::Ov-GST-3 + rol-6(su1006)]. Called AK1 in the reference article. The Ov-GST-3 gene was amplified from genomic DNA of O. volvulus with 1M of the sequence specific primer 5'Klon and 3'Klon (5'Klon: 5'-GGCGTACGATGTCAAGATTTCCTCAACAAG-3'; 3'Klon: 5'-GGTCTAGATTTATTTAGGAATGATTGAATCGGTCG-3'; representing bases 4 - 25 and the complementary sequence of bases 821 - 841 of the published Ov-GST-3 cDNA (AF203814); bold underlines indicate restriction sites for Pfl23II (SplI) and XbaI, respectively; dotted underline indicates the start codon for translation; italics indicates the conserved sequence for the polyadenylation signal for transgenic transcript processing; the 8 5'-nucleotides of primer 3'Klon and the fourteen 5'-nucleotides of primer 5'Klon do not correspond to the template and introduce the sequences to the amplicon), 200 M of each deoxynucleotide (Gibco BRL) and 2.5 units of Taq polymerase (Gibco BRL). After an initial denaturation of 3 minutes at 93C, 35 cycles of annealing at 55C for 1 minute, synthesis at 72C for 2 minutes and a 1 minute denaturation at 93C were performed, followed by a final extension at 72C for 5 minutes. The genomic Ov-GST-3 fragment obtained by PCR (see above) was ligated into the pGEM-T Easy vector (Promega) by TA-cloning, cleaved with the restriction enzymes Pfl23II (SplI) and XbaI (restriction sites introduced by the primer) and inserted between the unique Pfl23II (SplI) and XbaI sites of the vector pPD103.05 (kindly provided by A. Fire). The sequence of the genomic Ov-GST-3 fragment in the resulting plasmid pAK1 was confirmed by automated dye terminator, dideoxy sequencing (ABI Prism 377TM Sequencer, PE Applied Biosystems) using the PCR primers (see above). The pAK1 DNA was injected in combination with the marker

plasmid pRF4 [rol-6(su1006)] into the gonads of N2 C. elegans at a concentration of approximately 100 ng/l for each plasmid. Transgenic worms were identified by the selectable Roller marker phenotype and the stable transmitting line AK1ex (AK1 extrachromosomal) was established. Integration of the extrachromosomal arrays was achieved by irradiation of AK1ex worms with 3600 rad (1 rad = 0.01 Gy) of x-rays (x-ray chamber: RUM 9421-070-77002, Philips, Netherlands; dosimeter: PTW-SN4, PTW, Germany). The progeny of these worms was then screened for 100% transmittance of the Roller phenotype to obtain the C. elegans line AK1int (AK1 integrated) with the chromosomally integrated transgenes.

Catalog Number: WB-STRAIN:WBStrain00040639

Database: WormBase (WB)

Database Abbreviation: WB

Availability: available

Alternate IDs: WB-STRAIN:XA8400, CGC_XA8400

Organism Name: XA8400

Record Creation Time: 20230227T013726+0000

Record Last Update: 20260919T180917+0000

Ratings and Alerts

No rating or validation information has been found for XA8400.

No alerts have been found for XA8400.

Data and Source Information

Source: Integrated Animals

Source Database: WormBase (WB)

Usage and Citation Metrics

We have not found any literature mentions for this resource.