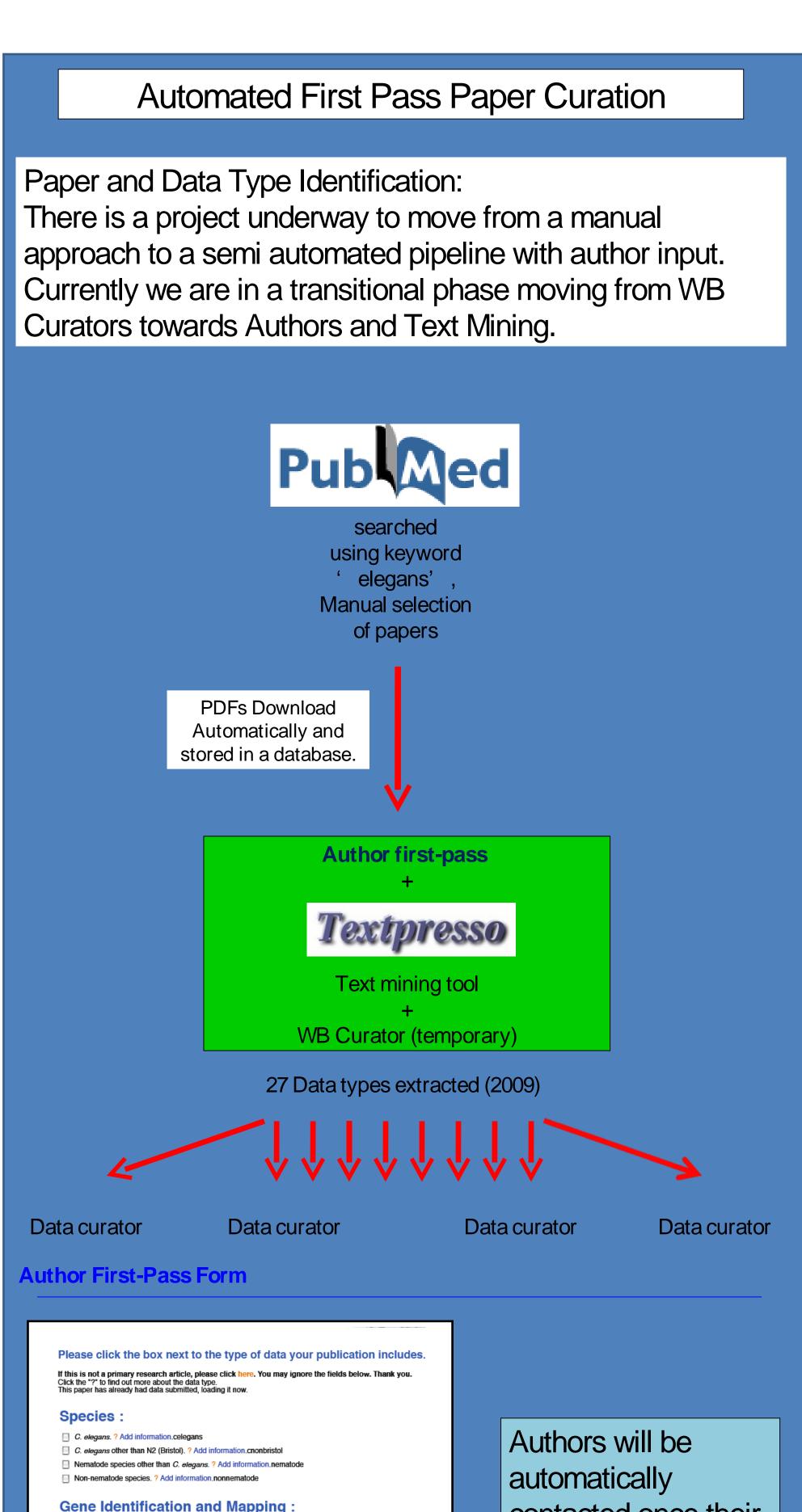
Paul Davis, Wellcome Trust Genome Campus.

WormBase Consortium, (PI List) Lincoln Stein – OICR, Paul Sternberg – CALTECH, John Spieth - GSC, Richard Durbin – WTSI

WormBase www.wormbase.org

WORMBASE – NEMATODE BIOLOGY AND GENOMES

WormBase is the major public online database resource for the Caenorhabditis research community. The database was developed primarily for the nematode C. elegans but expanded to host genomes and biological data from other closely related nematode species including C. briggsae, C. remanei, C. brenneri, C. japonica and Pristionchus pacificus. WormBase has developed tools to mine the data held within the database and compare the hosted species. Over the years we have developed a variety of curation pipelines which often begin in a "first-pass" literature curation step. This involves a brief overview of the literature before directing it to specialised data curators who extract all relevant information. Curators focus on particular data types or experimental techniques such as gene structure changes (see the Sequence curation poster), variations, phenotypes or RNAi and their expertise in these fields make curation efficient. WormBase works with many other groups and consortiums to validate, process and integrate both large and small scale data resources. WormBase also provides data that will be of interest to the wider biomedical and bioinformatics communities allowing researchers to utilise the information and techniques offered by nematodes to study wider aspects including medicine and disease.

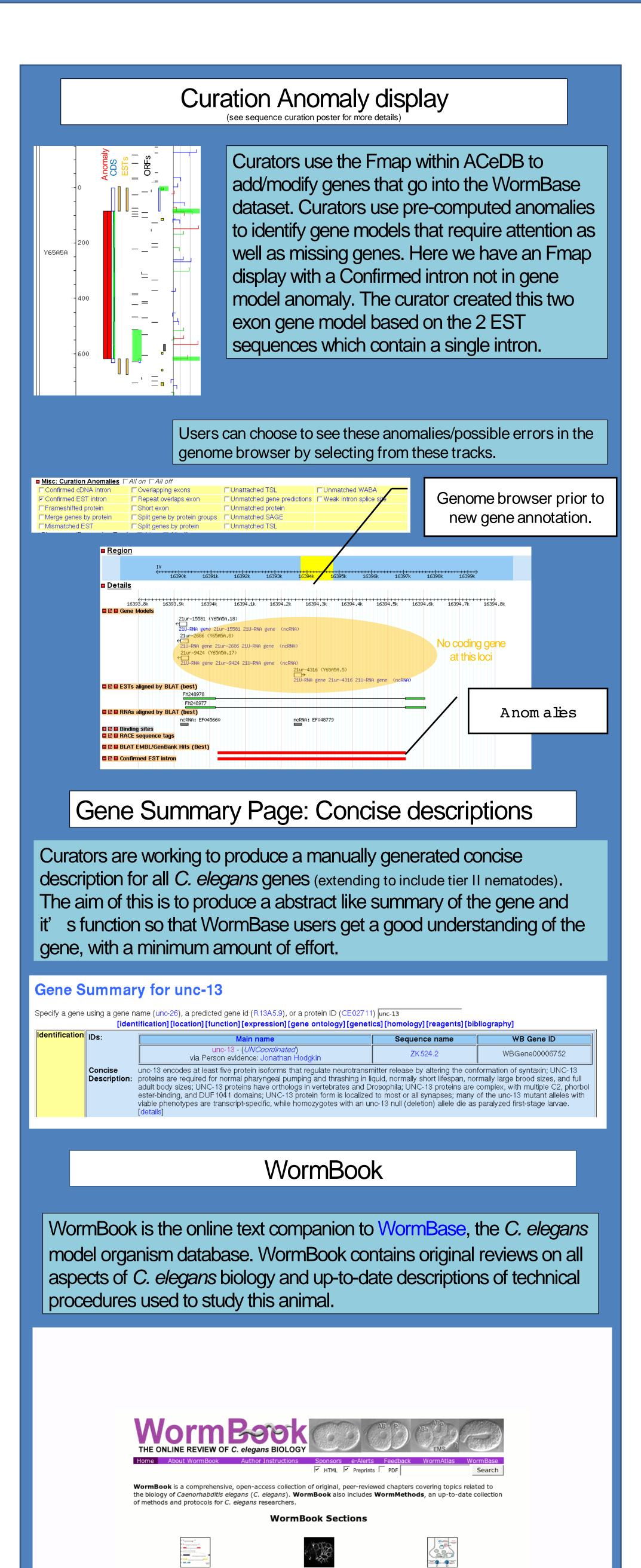


Homolog of a human disease-associated gene. ? Add information.humdis Interactions: □ Genetic interactions. ? Add information.genein Functional complementation. ? Add information.funccomp Gene product interaction. ? Add information.geneprod **Regulation of Gene Expression:** New expression pattern for a gene. ? Add information.otherexpr Microarray. ? Add information, microarray Alterations in gene expression by genetic or other treatment. ? Add information.genereg Regulatory sequence features. ? Add information.seqfeat Position frequency matrix (PFM) or position weight matrix (PWM). ? Add information.matrices Reagents.: C. elegans antibodies. ? Add information.antibody ▼ Integrated transgene. ? Add information.transgene Transgenes used as tissue markers. ? Add information.marker **Protein Function and Structure** Protein analysis in vitro. ? Add information.invitro Analysis of protein domains. ? Add information.domanal Covalent modification. ? Add information.covalent Structural information. ? Add information.structinfo Mass spectrometry. ? Add information.massspec Genome Sequence Data: Gene structure correction. ? Add information.structcorr Sequencing mutant alleles. ? Add information.seqchange Mew SNPs, not already in WormBase. ? Add information.newsnp Cell Data Ablation data. ? Add information.ablationdata Cell function. ? Add information.cellfunc In Silico Data Phylogenetic analysis. ? Add information.phylogenetic

Other bioinformatics analysis. ? Add information.othersilico

Other

Authors will be automatically contacted once their paper is downloaded, at this point the paper will not be visible to the curators. Once a set period of time has elapsed the text mining will be conducted and work distributed within the consortium.



Neurobiology and behavio

Evolution and ecology

se models and drug discovery

Photo Credits

Genetics and genomics

Molecular biology

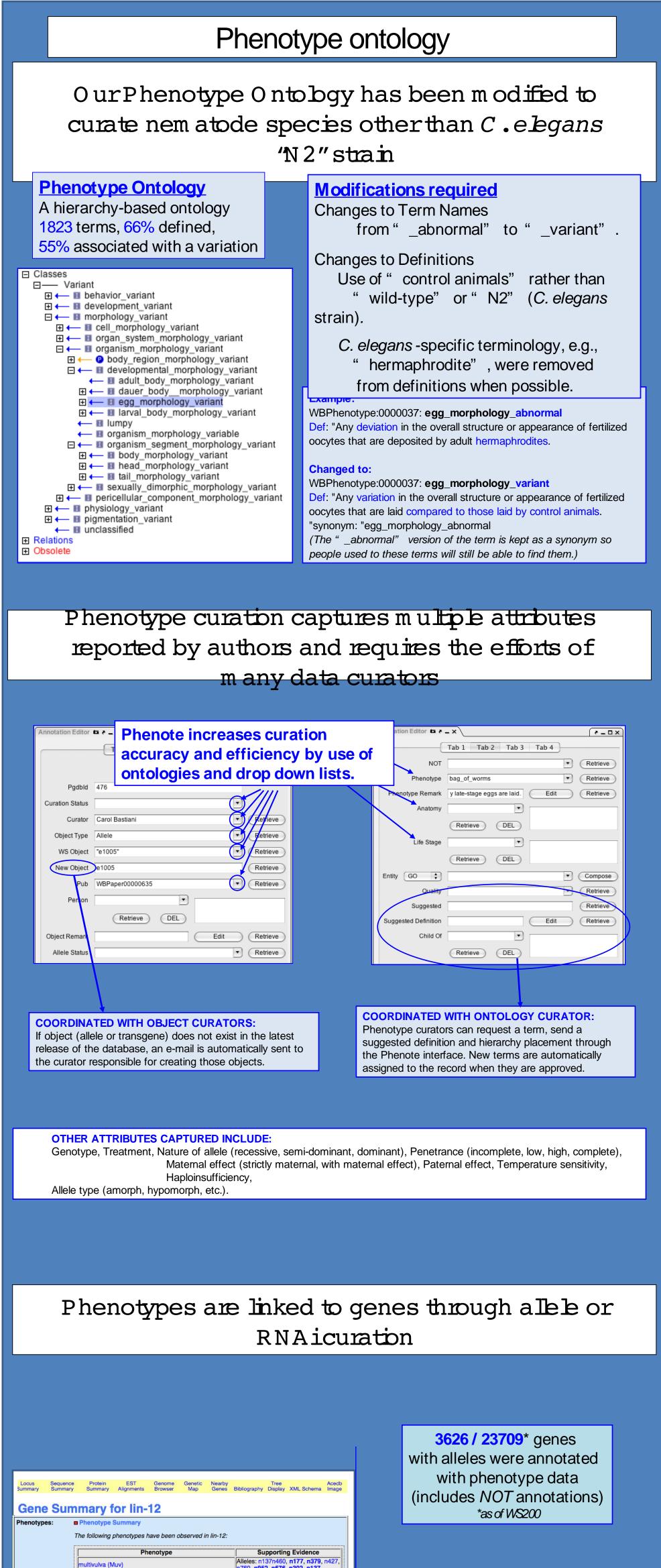
Biochemistry

Post-embryonic deve

Sex determination

Complete Chapter Listings

By Publication Date



Phenotypes Supported by 2 RNAi experiments

Supported by 4 RNAi experiments

Alleles: n177, n427, n769, n137

Supported by 4 RNAi experiments
Alleles: n379, n952, n676, n137

Supported by 1 RNAi experiments

Supported by 1 RNAi experiments
Supported by 1 RNAi experiments

Alleles: n177, n427, n137

Alleles: n379, n676n930, n769, n676, n302

March

2009

WS200

15951

34%

(17448)

23%

(+125

unflagged

papers)

2008

WS188

9771

(15326)

NA

Allele-phenotype

connections

Alleles Curated

(total # alleles)

Papers curated

(total papers

flagged)

reported as

observed

Alleles for which the sequence change is known are listed in boldface.

Phenotypes

reported as

NOT

observed

The following phenotypes were reported as NOT observed:

sterile (Ste)

vulvaless (Vul)

protruding vulva (PvI)

embryonic lethal (Emb)