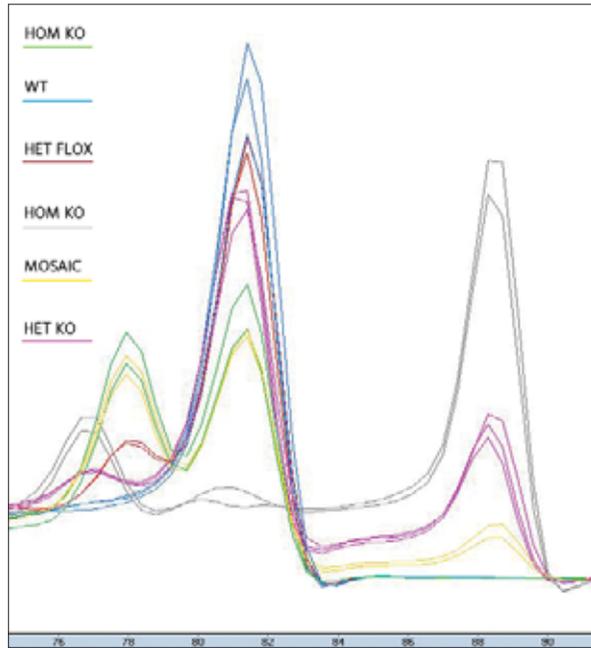


## Complex Analysis

Meltcurve analysis allows us to perform even complex genotyping in one reaction with greater accuracy.



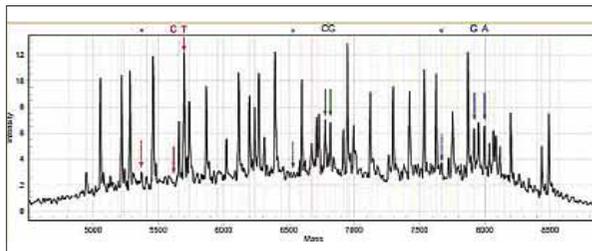
## Genetic Monitoring of inbred strains

We offer a 28x SNP panel to genetically check your breeding animals for purity of strain background (Petkov M. P).

“Development of a SNP genotyping panel for genetic monitoring of the laboratory mouse”

*Genomics* 2004 May;83(5):902-911).

The SNP panel is analysed with our high throughput Sequenom Mass Spec iPLEX service. Please note that there are additional costs for this type of analysis.



## COSTS

You can send us tissue or extracted column cleaned DNA. We charge per PCR (as we run an internal control, there is no need for a WT PCR). All repeats and controls are included in the fee below (PCR & extraction efficiency, contamination, internal, negative and positive control).

DNA Prep	\$2.30
PCR	\$3.80
Total Fee	\$6.10

Your DNA is stored for 6 months from the date we provide you with the results of the analysis. It can be sent to you for further analysis.

## YOUR TEAM AT GARVAN MOLECULAR GENETICS



Garvan  
Molecular  
Genetics  
Manager  
Pavel Bitter



MGS  
Coordinator 1  
Bhargavi  
Yamasani



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GARVAN  
MOLECULAR GENETICS

MOUSE  
GENOTYPING  
SERVICE

## MOUSE GENOTYPING AT THE GARVAN

The Garvan Institute and its mouse breeding company, Australian BioResources (ABR), offer a DNA isolation and mouse genotyping service.

The benefits of using our service are:

- \_ no fee for initial assay design
- \_ streamlined ordering process with minimal paperwork
- \_ fast turnaround time (usually 4 working days)
- \_ competitive pricing
- \_ NATA certified (ISO 17025) laboratory

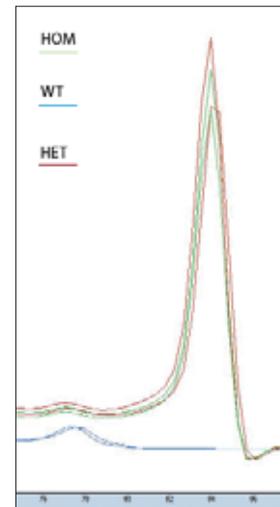
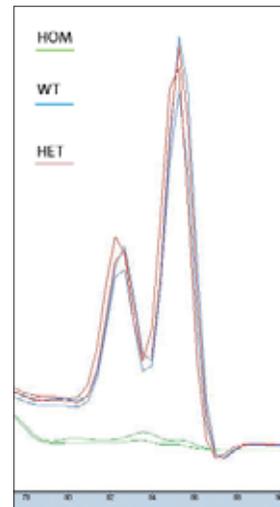
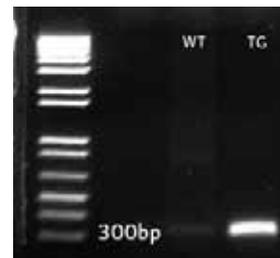
Results are sent electronically. If you house your mice at ABR and use Garvan's animal management software system (Stuart) you can access your results online.

## HOW WE DO IT

We perform high throughput meltcurve analysis which is based on the interaction between DNA and an intercalating dye that generates a fluorescent signal which disappears when DNA samples are heated to their melting temperature. The resulting signal corresponds to traditional gel images.

## WHY USE US?

We have over 6 years experience in mouse genotyping and run over 5000 PCRs/week using the latest technology. We can help in designing assays and advise you when we observe unusual results. Our staff is experienced and committed, and our procedures are all automated, from DNA prep to PCR setup through to analysis. The most compelling reason for using us? If you employ someone in your lab to do mouse genotyping you will pay a salary + overheads + repeats for errors. When you use a centralised service you can expect to pay on average an estimated 50% less than your in-house method.



## ADDITIONAL SERVICES

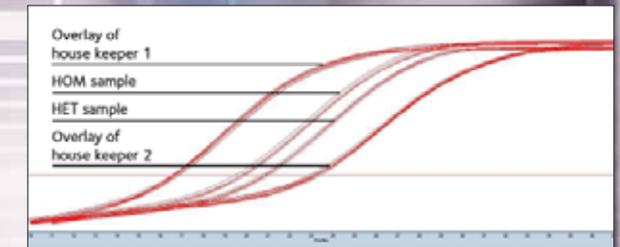
### Copy Number Analysis

If heterozygous and homozygous transgenic mice cannot be differentiated via standard PCR we can run a realtime PCR and separate the heterozygous from the homozygous samples via realtime Ct values (Shitara H).

“Simple method of zygosity identification in transgenic mice by real-time quantitative PCR.”

*Transgenic Res.* 2004 Apr;13(2):191-194.

Please note that there are additional fees for this type of analysis.



### SNP Analysis

With the meltcurve method and allele specific PCR we can also genotype SNPs, saving time and costs involved with standard restriction enzyme digestion and gel analysis.

