How to view a summary of all phenotyping data

1. From the Sanger Mouse Portal home page (<u>http://www.sanger.ac.uk/mouseportal/</u>), under **Phenotyping Overview**, click on "<u>Download</u> a heat map of phenotyping results by assay":

Sandar	A- A A+
institute	Mouse Resources Portal
HOME BROWSE HELP ABOUT	
	Search
Enter gene/product identifiers or pl	nenotyping test names (e.g. Mysm1, EPD0019_1_A05 or Dexa) or any other search term described in the help section.

About This Portal

The Wellcome Trust Sanger Institute generates, characterises, and uses a variety of reagents for mouse genetics research. It also aims to facilitate the distribution of these resources to the external scientific community. Here, you will find unified access to the different resources available from the Institute or its collaborators. The resources include: 12957 and C57BL6/J bacterial artificial chromosomes (BACs), MICER gene targeting vectors, knock-out first conditional-ready gene targeting vectors, embryonic stem (ES) cells with gene targeted mutations or with retroviral gene trag insertions, mutant mouse lines, and phenotypic data generated from the Institute's primary screen.

Phenotyping Summary

The table below displays the **number of alleles** that have completed different stages of the MGP Phenotyping pipeline (funded by WTSI & EUMODIC)

Comprehensive Phenotyping Substantively Complete	564
Infection Challenge (Salmonella and Citrobacter)	495
LacZ Expression (Adult and E14.5)	339

Other Data Summary

The table below displays the **number of unique genes** with each individual product type produced at the Wellcome Trust Sanger Institute.

Funding:	WTSI EUMODIC	KOMP EUCOMM	KOMP EUCOMM	WT	WT	WT
Products:	Mice	Targeted ES Cells	Gene Targeting Vectors	MICER	C57BI/6J BACs	12957 BACs
	904	13011	15105	6719	12037	11874

Phenotyping Overview



If you would like to be kept updated with information on our phenotyping data, please subscribe to our mailing list.





- 2. This opens an excel spreadsheet containing a colour coded heat map style summary of all phenotyping data. Details of each mutant mouse line are listed in columns A-C, one row representing one unique mutant mouse line:
 - Colony Prefix (column A): Unique identifier for the mutant mouse line
 - Allele Name (column B): Full allele name carried by the mutant mouse line
 - Strain (column C): Genetic background upon which the mutant mouse line was phenotyped

Colony Prefix	Allele Name	Strain	Viability at weaning	Recessive Lethal Study	Fertility	Embryo LacZ Expression	Adult LacZ Expression	General Observations	Weight Curves	Open Field	Modified SHIRPA	Grip Strength	Hot Plate	Dysmorphology	Rotarod	Non-Invasive Blood Pressure	Prepulse Inhibition	Indirect Calorimetry	Glucose Tolerance (ip)	Auditory Brainstem Response	Body Composition (DEXA)	X-ray Imaging	Stress Induced Hyperthermia	Eye Morphology	Plasma Chemistry	Plasma Immunoglobulins	Haematology (CBC)	Peripheral Blood Lymphocytes	Micronuclei	Tissue Biobank	Heart Weight	Heart Histology	Tail Epidermis Wholemount	Skin Histopathology	Brain Histopathology	Eye Histopathology	MicroCT & Quantitative Faxitron	Salmonella Challenge	Citrobacter Challenge
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3. The remaining columns represent each of the phenotyping tests performed by the Sanger Mouse Genetics Project





4. The legend explaining the colour code used to summarise the outcome of each mutant mouse line/phenotypic test combination can be found to the right of the spreadsheet and is copied below:

LE	GEND
	Test semplets and data (resources are subjected
	Test complete and data/resources are available
	Test is complete and the data are considered interesting
	Preliminary indication of an interesting phenotype
	Test is complete but the data are not considered interesting
	Test not performed or applicable e.g. no lacZ reporter therefore no expression
	Test abandoned
	Test pending
2	Link to a phenotyping test report page



5. Clicking on any \geq symbol $\geq \geq \geq \geq \geq 2$ opens the web page on the Sanger Mouse Portal describing the standard protocol and parameters collected for that mutant mouse line/phenotypic test combination.

wellcome trus						A- A A+
						Mouse Resources Portal
HOME BROWSE	HELP AB	OUT				search
ucose Toler	ance (ip)	Data fo	r Sp	tbn1 (MB	BAX)
Standard Protocol						
ipGTT (week 13) [Mit before the glucose to Check Aviva, Roche) ▶ view legend	e were fed o lerance test. at 15, 30, 6	on High I A fastir D and 12	Fat Diet (21.49 ng blood samp 20 minutes foll	% crude f le is take owing the	at content, Wester n before a bolus o glucose administi	rn RD, 829100, Special Diets Services) from 4 weeks of age]: Mice are fasted overnight (maximum of 16 hours) f glucose is administered by intra-peritoneal injection. Blood samples are tested for glucose concentration (Accu- ration, and data presented as plasma glucose concentration.
Parameter	Female Het	Male Het	population parameter	Graph	MP Annotation	
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6. Where the test is complete and the data are considered interesting
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itandard Protocol - <i>sig</i>	nificant p	aramet	ers			
DEXA (week 14) [Mice w energy X-ray absorption	vere fed on metry mach	High Fa iine (Lun	t Diet (21.4%) har PIXImus II	crude fat content). This generates	, Western RD, 829100, Special Diets Services) fron an image of the entire mouse and provides bone r	n 4 weeks of age]: Mice are anaesthetised and imaged on a dual nineral and body composition data.
view legend						
Legend - hover over eac	h heading t	to get a	more complete	e description		
Test complete and d	lata/resour	ces are a	available	т	est is complete and the data are considered interes	sting Preliminary indication of an interesting phenotype
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Test is complete but Test abandoned Parameter Bone Mineral Density Bone Mineral Content Body Weight Nose to Tailbase Length Lean Mass Fat Mass	Female Het	Male Hemi	population parameter	Graph T Seraph Seraph Seraph View graph View graph View graph View graph View graph View graph View graph View graph View graph	MP Annotation MP:0000063 - decreased bone mineral density MP:0010124 - decreased bone mineral content MP:0001262 - decreased body weight MP:0001258 - decreased body length MP:0003961 - decreased lean body mass	Test pending





7. Click on the kiew graph icon to open a window that allows you to scroll through graphs of data from both sexes for each significant parameter.





- 8. The raw data from mutant mice (Subjects), wildtype mice run on the same week as the mutants (Controls) and, where appropriate, all age, sex, genetic background and pipeline matched wildtype mice (Baseline) are viewable by clicking the view data icon.
- 9. The raw data from mutant mice (Subjects), wildtype mice run on the same week as the mutants (Controls) and, where appropriate, all age, sex, genetic background and pipeline matched wildtype mice (Baseline) can be downloaded as an XML document by clicking the download data icon.



