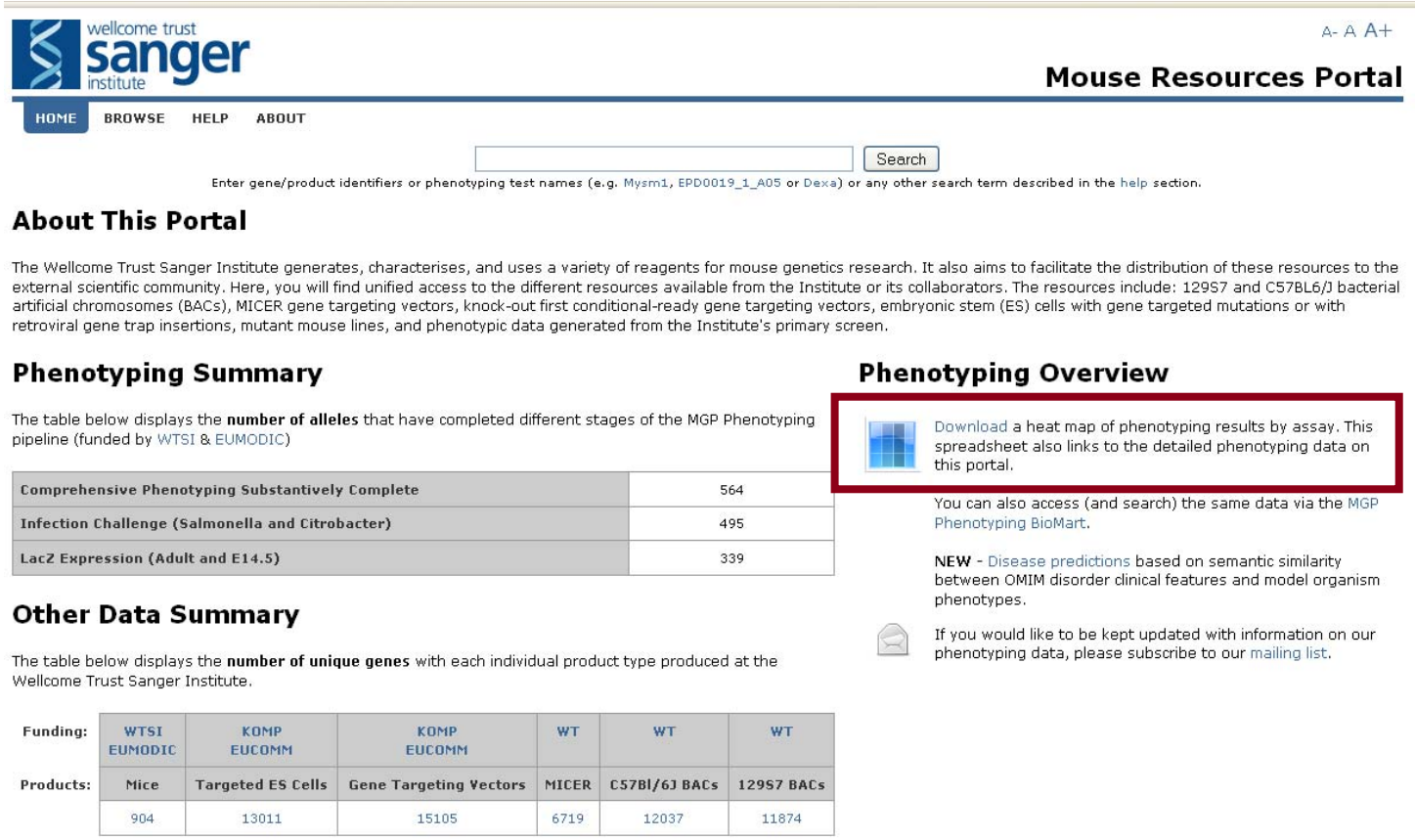
How to view a summary of all phenotyping data

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

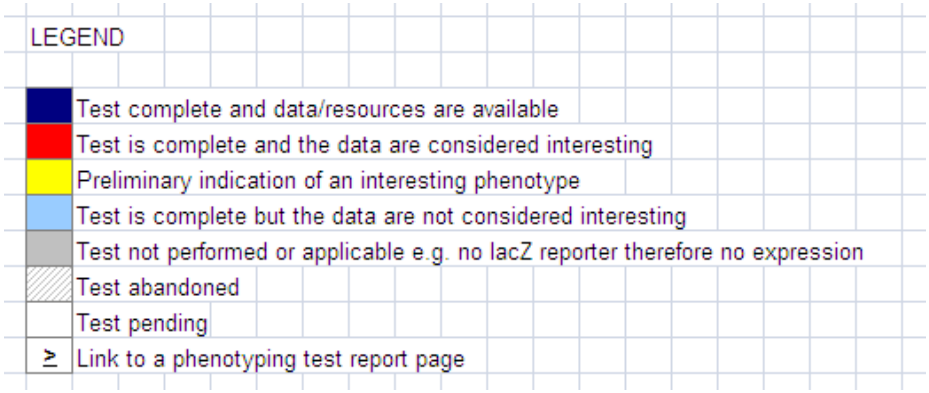


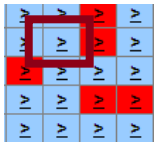
2. This opens an excel spreadsheet containing a colour coded heat map style summary of all phenotyping data. Details of each mutant mouse line are listed in columns A-C, one row representing one unique mutant mouse line:
    - Colony Prefix (column A): Unique identifier for the mutant mouse line
    - 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
MBAU	Sparc<tm1a(EUCOMM)W	C57BL/6	≥	≥	≥	≥	≥		≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥				≥		≥	≥
MBAX	Spnb2<tm1a(EUCOMM)W	C57BL/6	≥	≥		≥	≥		≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥	≥	≥	≥	≥		≥	≥
MBBC	Mapk1<tm1a(EUCOMM)	C57BL/6	≥	≥			≥		≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥	≥	≥	≥			≥	≥
MBBM	Sympk<tm1a(EUCOMM	C57BL/6	≥	≥		≥	≥		≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥			≥			≥	≥
MBBQ	Ninl<tm1a(EUCOMM)Wt	C57BL/6	≥	≥	≥	≥	≥		≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥		≥	≥	≥		≥	≥
MBBS	Prmt1<tm1a(EUCOMM)W	C57BL/6	≥	≥		≥	≥		≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥			≥			≥	≥
MBBV	Lmnb1<tm1a(EUCOMM)	C57BL/6	≥	≥					≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥			≥	≥	≥							
MBBZ	Smc3<tm1a(EUCOMM)W	C57BL/6	≥	≥		≥	≥		≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥				≥		≥	≥
MBCB	Ldha<tm1a(EUCOMM)W	C57BL/6	≥	≥		≥	≥		≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥	≥	≥	≥			≥	≥
MBCD	Sms<tm1a(EUCOMM)W	C57BL/6Tyr	≥			≥	≥		≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥				≥			≥
MBCH	Ncaph2<tm1a(EUCOMM	C57BL/6	≥	≥		≥	≥		≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥	≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥	≥		≥			≥	≥
MBCK	Atp5a1<tm1a(EUCOMM	C57BL/6	≥	≥		≥	≥		≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥			≥			≥	≥
MBCL	Pfkl<tm1a(EUCOMM)Wt	C57BL/6	≥	≥		≥	≥		≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥	≥	≥	≥			≥	≥
MBCQ	Kdm4b<tm1a(EUCOMM	C57BL/6	≥	≥	≥		≥		≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥			≥	≥	≥							≥	≥
MBCS	Myh9<tm1a(EUCOMM)W	C57BL/6	≥	≥		≥	≥		≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥				≥		≥	≥
MBCU	Prmt3<tm1a(EUCOMM)W	C57BL/6	≥	≥	≥	≥	≥	≥	≥	≥	≥	≥	≥	≥				≥	≥	≥	≥	≥	≥	≥	≥	≥	≥		≥	≥	≥	≥			≥	≥		≥	≥

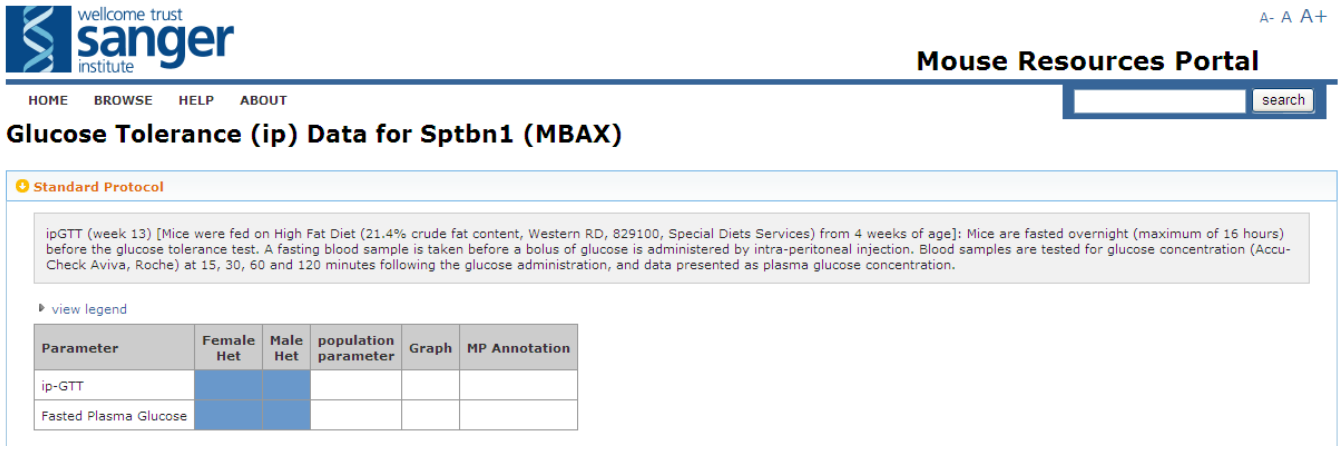
3. The remaining columns represent each of the phenotyping tests performed by the Sanger Mouse Genetics Project

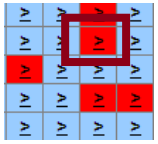
4. The legend explaining the colour code used to summarise the outcome of each mutant mouse line/phenotypic test combination can be found to the right of the spreadsheet and is copied below:





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



6. Where the test is complete and the data are considered interesting  (red cells), the **≥** link opens the web page on the Sanger Mouse Portal describing the standard protocol, listing the parameters collected and the Mammalian Phenotype (MP) annotations assigned to describe each observed phenotype, and providing a link to view the graph for each parameter considered significant.

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Body Composition (DEXA) Data for Sms (MBCD)

Standard Protocol - *significant parameters*

DEXA (week 14) [Mice were fed on High Fat Diet (21.4% crude fat content, Western RD, 829100, Special Diets Services) from 4 weeks of age]: Mice are anaesthetised and imaged on a dual energy X-ray absorptiometry machine (Lunar PIXImus II). This generates an image of the entire mouse and provides bone mineral and body composition data.

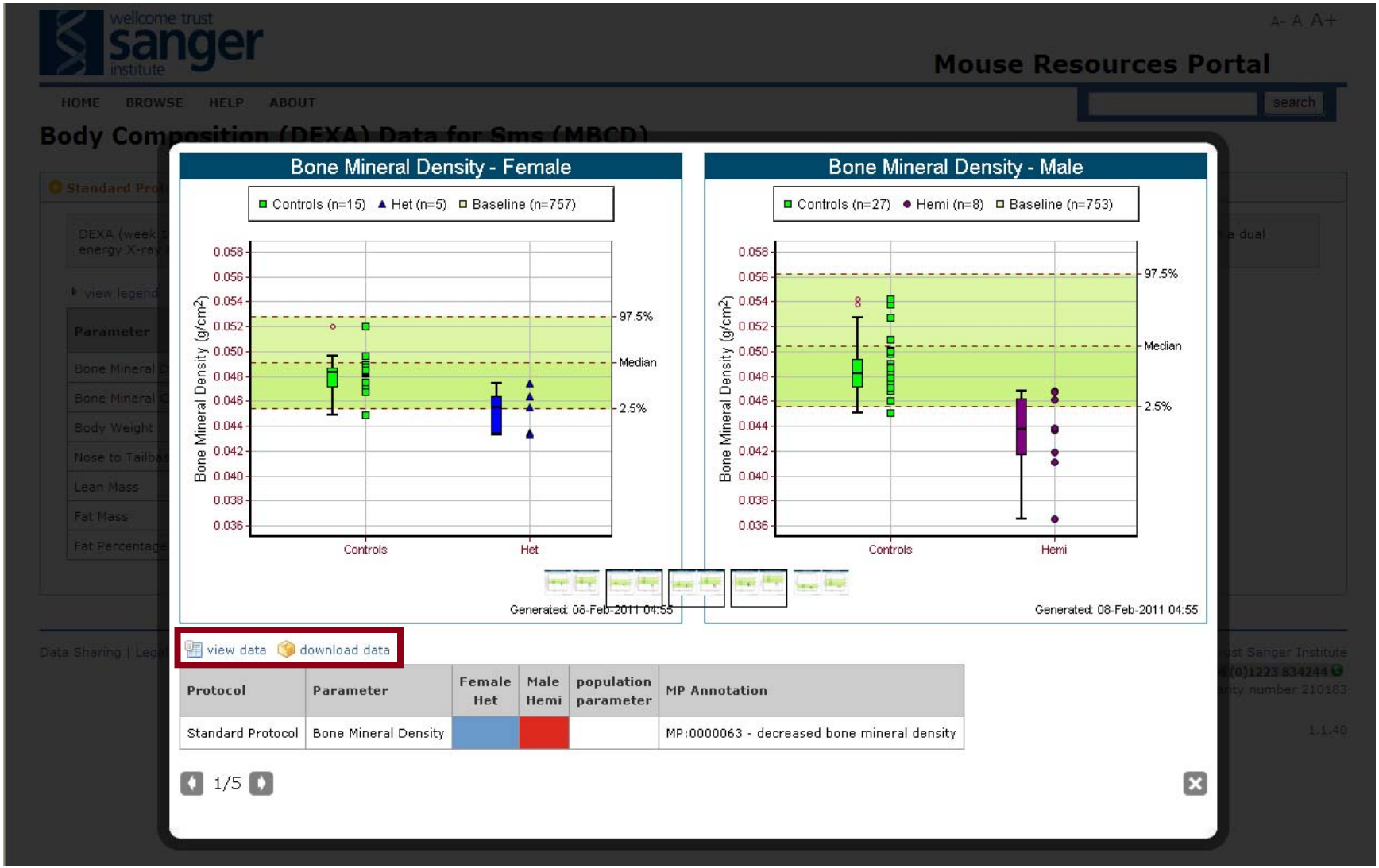
view legend

Legend - hover over each heading to get a more complete description

- 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
- Test pending
- Test abandoned

Parameter	Female Het	Male Hemi	population parameter	Graph	MP Annotation
Bone Mineral Density				view graph	MP:0000063 - decreased bone mineral density
Bone Mineral Content				view graph	MP:0010124 - decreased bone mineral content
Body Weight				view graph	MP:0001262 - decreased body weight
Nose to Tailbase Length				view graph	MP:0001258 - decreased body length
Lean Mass				view graph	MP:0003961 - decreased lean body mass
Fat Mass					
Fat Percentage Estimate					

7. Click on the view 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 

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 

icon.