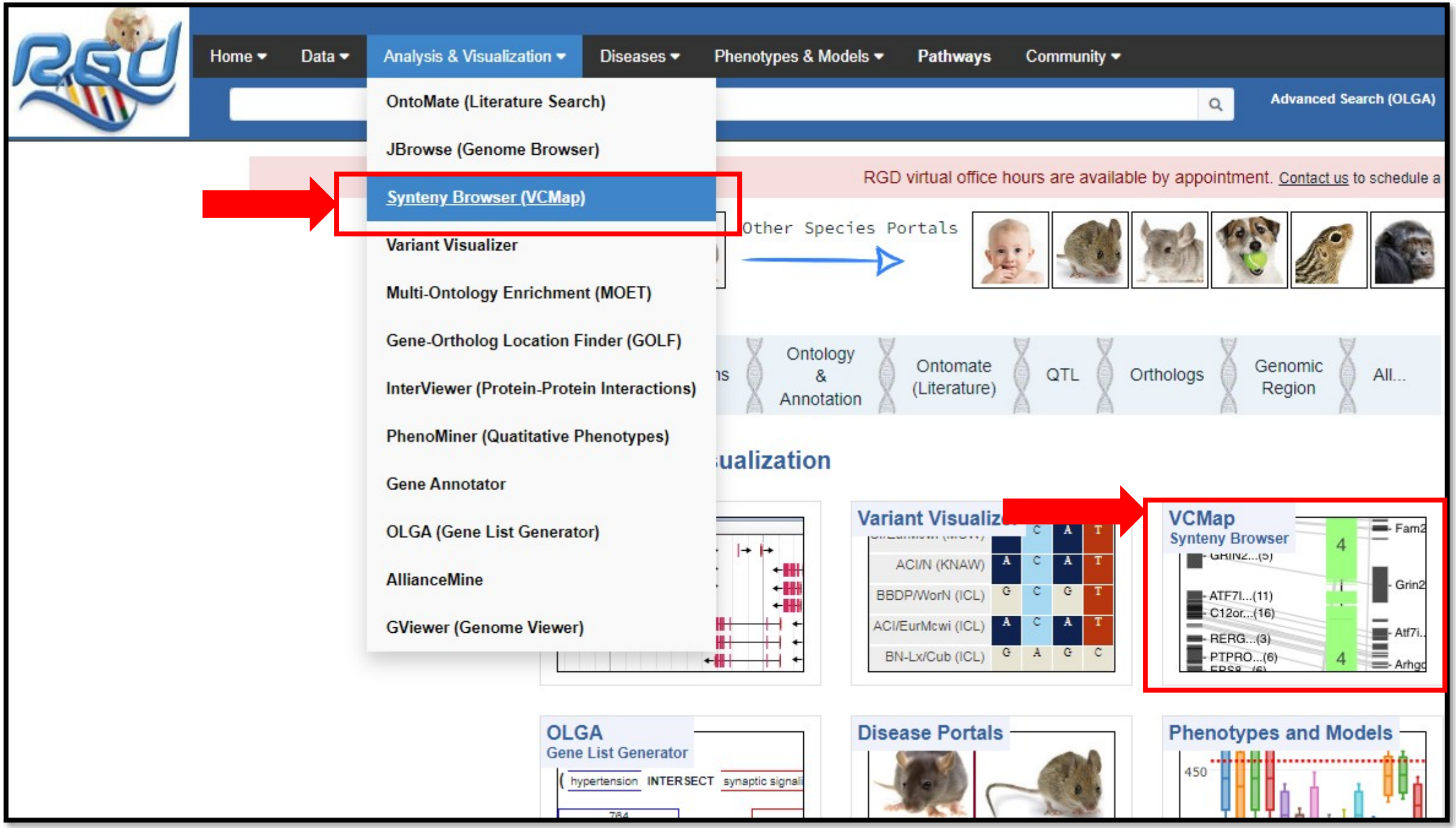
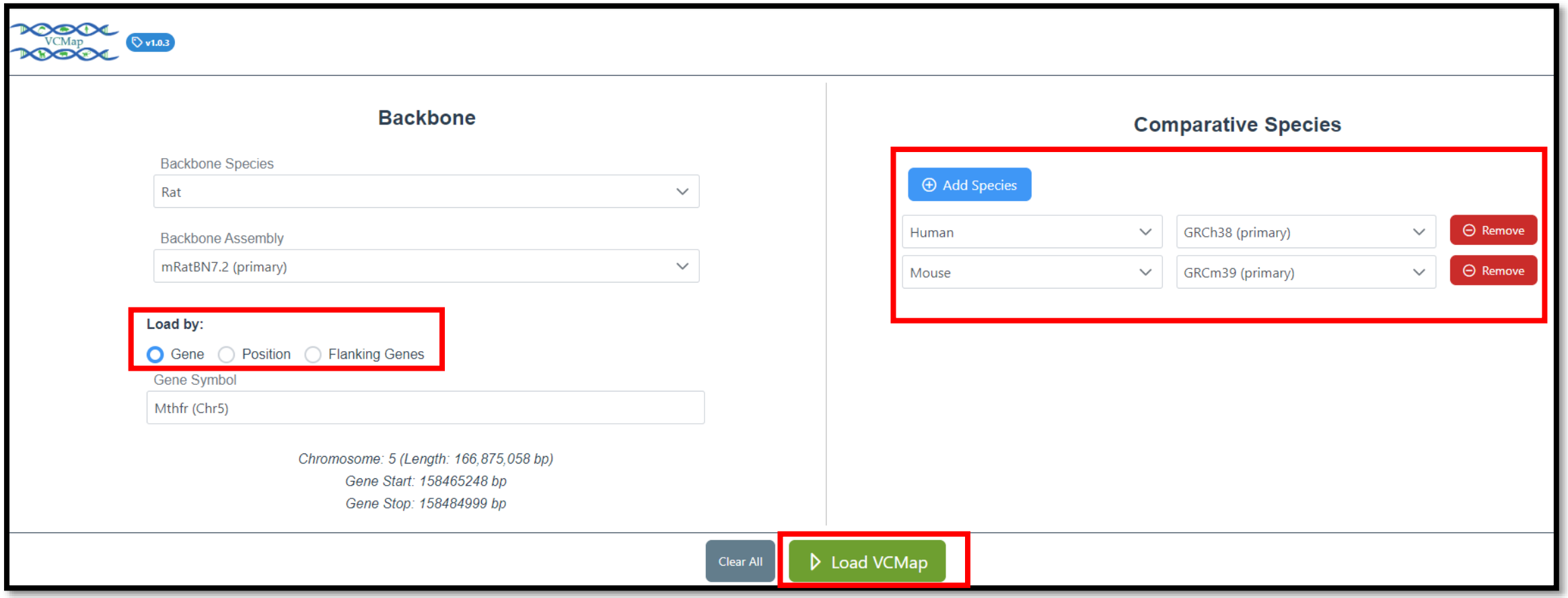
Navigating public resources for quantitative genetics, phenotypes and omics data for my research

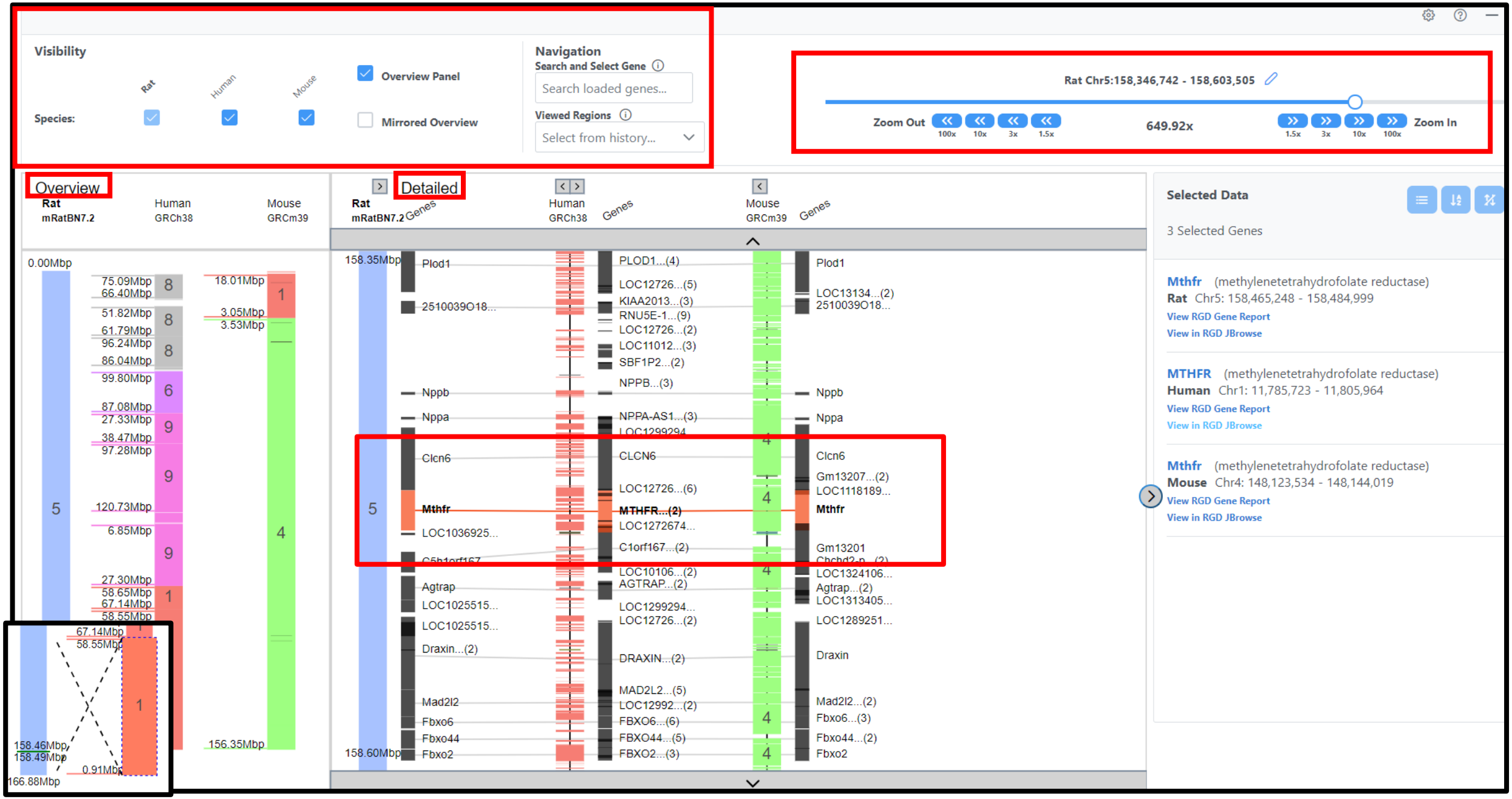
Complex Trait Community – Rat Genomics Meeting October 2024

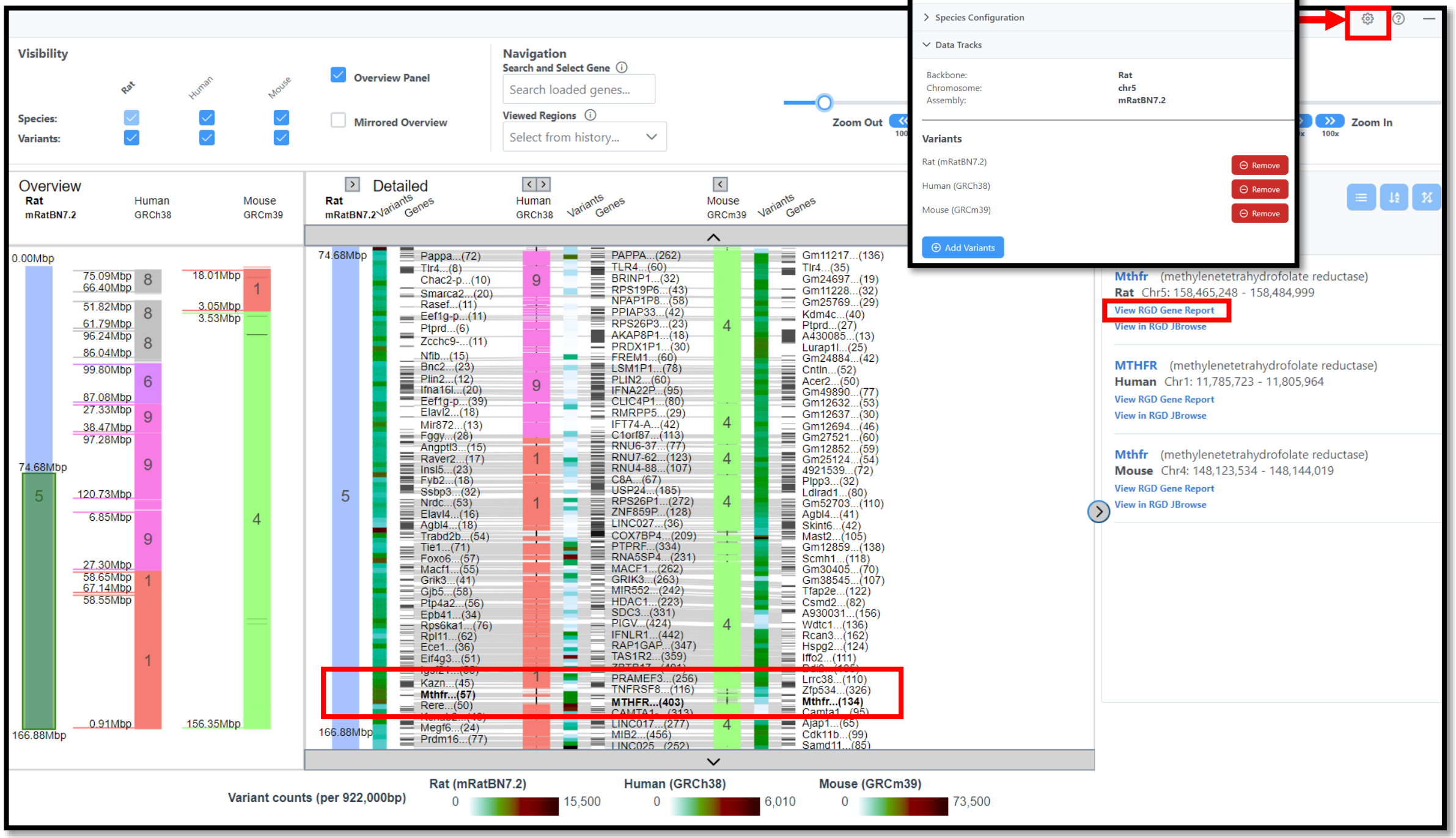
Mahima Vedi - Rat Genome Database

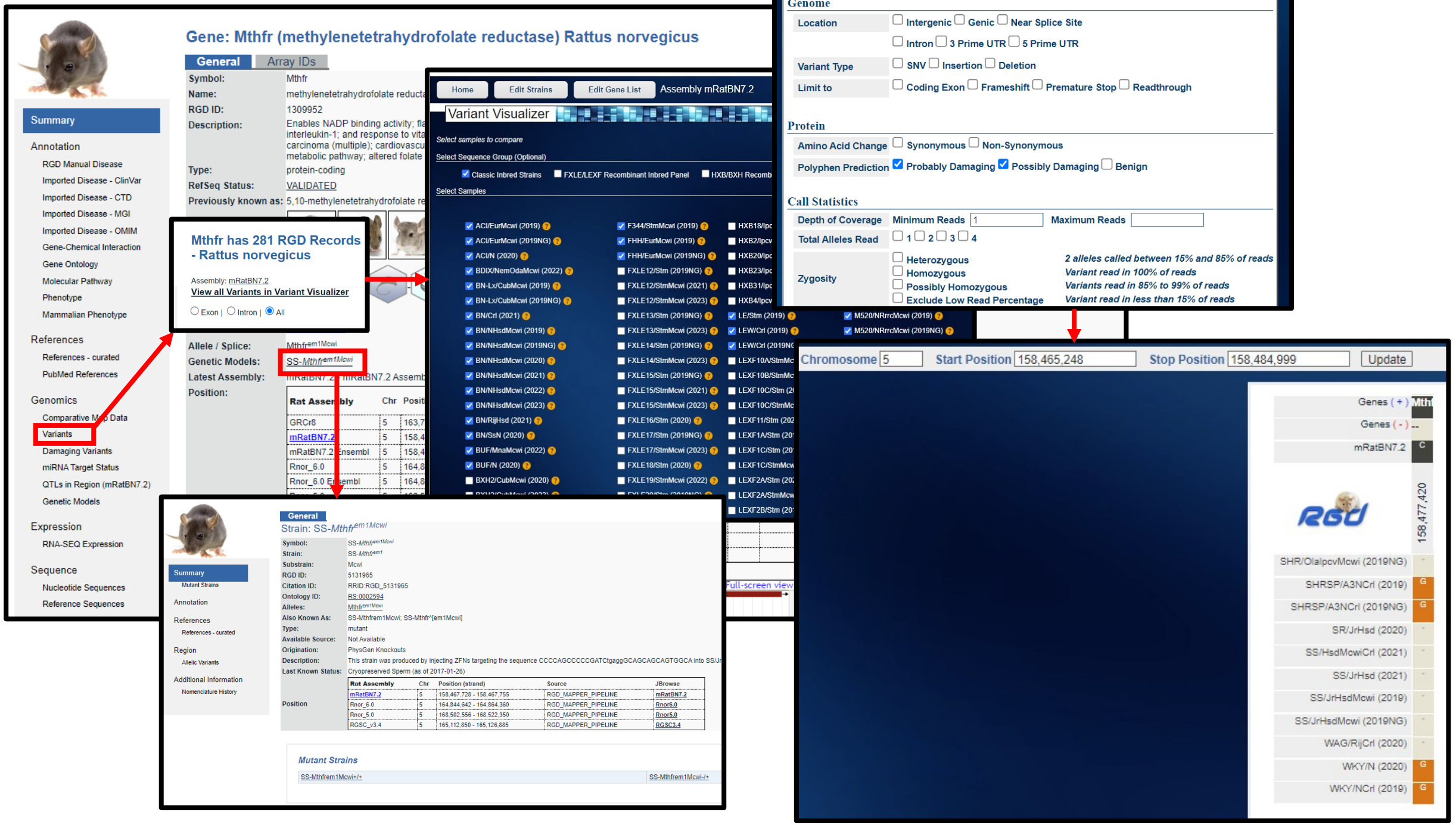
Rat Genome Database


Home
Data
Analysis & Visualization
Diseases
Phenotypes & Models
Pathways
Community
Advanced Search (OLGA)
OntoMate (Literature Search)
JBrowse (Genome Browser)
Synteny Browser (VCMap)
Variant Visualizer
Multi-Ontology Enrichment (MOET)
Gene-Ortholog Location Finder (GOLF)
InterViewer (Protein-Protein Interactions)
PhenoMiner (Quatitative Phenotypes)
Gene Annotator
OLGA (Gene List Generator)
AllianceMine
GViewer (Genome Viewer)
RGD virtual office hours are available by appointment. Contact us to schedule a
Other Species Portals
Ontology & Annotation
Ontomate (Literature)
QTL
Orthologs
Genomic Region
All...
VCMap
Synteny Browser
Variant Visualizer
ACI/N (KNAW)
BBDP/WorN (ICL)
ACI/EurMcwi (ICL)
BN-Lx/Cub (ICL)
OLGA
Gene List Generator
hypertension
INTERSECT
Disease Portals
Phenotypes and Models


VCMap
v1.0.3
Backbone
Backbone Species
Rat
Backbone Assembly
mRatBN7.2 (primary)
Load by:
Gene
Position
Flanking Genes
Gene Symbol
Mthfr (Chr5)
Chromosome: 5 (Length: 166,875,058 bp)
Gene Start: 158465248 bp
Gene Stop: 158484999 bp
Comparative Species
Add Species
Human
GRCh38 (primary)
Remove
Mouse
GRCm39 (primary)
Remove
Clear All
Load VCMap


Visibility
Rat
Human
Mouse
Species:
Overview Panel
Mirrored Overview
Navigation
Search and Select Gene
Search loaded genes...
Viewed Regions
Select from history...
Rat Chr5:158,346,742 - 158,603,505
Zoom Out
100x
10x
3x
1.5x
649.92x
1.5x
3x
10x
100x
Zoom In
Overview
Rat
mRatBN7.2
Human
GRCh38
Mouse
GRCm39
Detailed
Rat
mRatBN7.2
Genes
Human
GRCh38
Genes
Mouse
GRCm39
Genes
0.00Mbp
75.09Mbp
66.40Mbp
51.82Mbp
61.79Mbp
96.24Mbp
86.04Mbp
99.80Mbp
87.08Mbp
27.33Mbp
38.47Mbp
97.28Mbp
120.73Mbp
6.85Mbp
27.30Mbp
58.65Mbp
67.14Mbp
58.55Mbp
18.01Mbp
3.05Mbp
3.53Mbp
156.35Mbp
158.46Mbp
158.49Mbp
166.88Mbp
0.91Mbp
158.35Mbp
158.60Mbp
Plod1
2510039O18...
Nppb
Nppa
Clcn6
Mthfr
LOC1036925...
Agtrap
LOC1025515...
LOC1025515...
Draxin...(2)
Mad2l2
Fbxo6
Fbxo44
Fbxo2
PLOD1...(4)
LOC12726...(5)
KIAA2013...(3)
RNU5E-1...(9)
LOC12726...(2)
LOC11012...(3)
SBF1P2...(2)
NPPB...(3)
NPPA-AS1...(3)
LOC1299294
CLCN6
LOC12726...(6)
MTHFR...(2)
LOC1272674...
C1orf167...(2)
LOC10106...(2)
AGTRAP...(2)
LOC1299294...
LOC12726...(2)
DRAXIN...(2)
MAD2L2...(5)
LOC12992...(2)
FBXO6...(6)
FBXO44...(5)
FBXO2...(3)
Plod1
LOC13134...(2)
2510039O18...
Nppb
Nppa
Clcn6
Gm13207...(2)
LOC1118189...
Mthfr
Gm13201
LOC1324106...
Agtrap...(2)
LOC1313405...
LOC1289251...
Draxin
Mad2l2...(2)
Fbxo6...(3)
Fbxo44...(2)
Fbxo2
Selected Data
3 Selected Genes
Mthfr (methylenetetrahydrofolate reductase)
Rat Chr5: 158,465,248 - 158,484,999
View RGD Gene Report
View in RGD JBrowse
MTHFR (methylenetetrahydrofolate reductase)
Human Chr1: 11,785,723 - 11,805,964
View RGD Gene Report
View in RGD JBrowse
Mthfr (methylenetetrahydrofolate reductase)
Mouse Chr4: 148,123,534 - 148,144,019
View RGD Gene Report
View in RGD JBrowse


Visibility
Rat
Human
Mouse
Species:
Variants:
Overview Panel
Mirrored Overview
Navigation
Search and Select Gene
Search loaded genes...
Viewed Regions
Select from history...
Zoom Out
Zoom In
Settings
Species Configuration
Data Tracks
Backbone: Rat
Chromosome: chr5
Assembly: mRatBN7.2
Variants
Rat (mRatBN7.2)
Human (GRCh38)
Mouse (GRCm39)
Remove
Add Variants
Overview
Rat mRatBN7.2
Human GRCh38
Mouse GRCm39
Detailed
Variants
Genes
0.00Mbp
74.68Mbp
166.88Mbp
Mthfr (methylenetetrahydrofolate reductase)
Rat Chr5: 158,465,248 - 158,484,999
View RGD Gene Report
View in RGD JBrowse
MTHFR (methylenetetrahydrofolate reductase)
Human Chr1: 11,785,723 - 11,805,964
View RGD Gene Report
View in RGD JBrowse
Mthfr (methylenetetrahydrofolate reductase)
Mouse Chr4: 148,123,534 - 148,144,019
View RGD Gene Report
View in RGD JBrowse
Variant counts (per 922,000bp)
Rat (mRatBN7.2)
0
15,500
Human (GRCh38)
0
6,010
Mouse (GRCm39)
0
73,500


Gene: Mthfr (methylenetetrahydrofolate reductase) Rattus norvegicus
General
Array IDs
Symbol: Mthfr
Name: methylenetetrahydrofolate reducta
RGD ID: 1309952
Description: Enables NADP binding activity; fla
interleukin-1; and response to vita
carcinoma (multiple); cardiovascu
metabolic pathway; altered folate
Type: protein-coding
RefSeq Status: VALIDATED
Previously known as: 5,10-methylenetetrahydrofolate re
Summary
Annotation
RGD Manual Disease
Imported Disease - ClinVar
Imported Disease - CTD
Imported Disease - MGI
Imported Disease - OMIM
Gene-Chemical Interaction
Gene Ontology
Molecular Pathway
Phenotype
Mammalian Phenotype
References
References - curated
PubMed References
Genomics
Comparative Map Data
Variants
Damaging Variants
miRNA Target Status
QTLs in Region (mRatBN7.2)
Genetic Models
Expression
RNA-SEQ Expression
Sequence
Nucleotide Sequences
Reference Sequences
Mthfr has 281 RGD Records - Rattus norvegicus
Assembly: mRatBN7.2
View all Variants in Variant Visualizer
Exon | Intron | All
Allele / Splice: Mthfr em1Mcwi
Genetic Models: SS-Mthfr em1Mcwi
Latest Assembly: mRatBN7.2 Assemb
Position:
Rat Assembly Chr Posit
GRCr8 5 163,7
mRatBN7.2 5 158,4
mRatBN7.2 Ensembl 5 158,4
Rnor_6.0 5 164,8
Rnor_6.0 Ensembl 5 164,8
Home
Edit Strains
Edit Gene List
Assembly mRatBN7.2
Variant Visualizer
Select samples to compare
Select Sequence Group (Optional)
Classic Inbred Strains
FXLE/LEXF Recombinant Inbred Panel
HXB/BXH Recomb
Select Samples
ACI/EurMcwi (2019)
ACI/EurMcwi (2019NG)
ACI/N (2020)
BDIX/NemOdaMcwi (2022)
BN-Lx/CubMcwi (2019)
BN-Lx/CubMcwi (2019NG)
BN/Crl (2021)
BN/NHsdMcwi (2019)
BN/NHsdMcwi (2019NG)
BN/NHsdMcwi (2020)
BN/NHsdMcwi (2021)
BN/NHsdMcwi (2022)
BN/NHsdMcwi (2023)
BN/RijHsd (2021)
BN/SsN (2020)
BUF/MnaMcwi (2022)
BUF/N (2020)
BXH2/CubMcwi (2020)
F344/StmMcwi (2019)
FHH/EurMcwi (2019)
FHH/EurMcwi (2019NG)
FXLE12/Stm (2019NG)
FXLE12/StmMcwi (2021)
FXLE12/StmMcwi (2023)
FXLE13/Stm (2019NG)
FXLE13/StmMcwi (2023)
FXLE14/Stm (2019NG)
FXLE14/StmMcwi (2023)
FXLE15/Stm (2019NG)
FXLE15/StmMcwi (2021)
FXLE15/StmMcwi (2023)
FXLE16/Stm (2020)
FXLE17/Stm (2019NG)
FXLE17/StmMcwi (2023)
FXLE18/Stm (2020)
FXLE19/StmMcwi (2022)
HXB18/Ipc
HXB2/Ipcv
HXB20/Ipc
HXB23/Ipc
HXB31/Ipc
HXB4/Ipcv
LE/Stm (2019)
LEW/Crl (2019)
M520/NRrrcMcwi (2019)
M520/NRrrcMcwi (2019NG)
LEXF10A/StmMc
LEXF10B/StmMc
LEXF10C/Stm (2
LEXF10C/StmMc
LEXF11/Stm (202
LEXF1A/Stm (20
LEXF1C/Stm (20
LEXF1C/StmMcw
LEXF2A/Stm (20
LEXF2A/StmMcw
LEXF2B/Stm (20
Full-screen view
Genome
Location Intergenic Genic Near Splice Site
Intron 3 Prime UTR 5 Prime UTR
Variant Type SNV Insertion Deletion
Limit to Coding Exon Frameshift Premature Stop Readthrough
Protein
Amino Acid Change Synonymous Non-Synonymous
Polyphen Prediction Probably Damaging Possibly Damaging Benign
Call Statistics
Depth of Coverage Minimum Reads 1 Maximum Reads
Total Alleles Read 1 2 3 4
Zygosity
Heterozygous
Homozygous
Possibly Homozygous
Exclude Low Read Percentage
2 alleles called between 15% and 85% of reads
Variant read in 100% of reads
Variants read in 85% to 99% of reads
Variant read in less than 15% of reads
Chromosome 5 Start Position 158,465,248 Stop Position 158,484,999 Update
Genes (+) Mthf
Genes (-)
mRatBN7.2 C
158,477,420
SHR/OlaIpcvMcwi (2019NG)
SHRSP/A3NCrl (2019) G
SHRSP/A3NCrl (2019NG) G
SR/JrHsd (2020)
SS/HsdMcwiCrl (2021)
SS/JrHsd (2021)
SS/JrHsdMcwi (2019)
SS/JrHsdMcwi (2019NG)
WAG/RijCrl (2020)
WKY/N (2020) G
WKY/NCrl (2019) G
General
Strain: SS-Mthfr em1Mcwi
Symbol: SS-Mthfr em1Mcwi
Strain: SS-Mthfr em1
Substrain: Mcwi
RGD ID: 5131965
Citation ID: RRID:RGD_5131965
Ontology ID: RS:0002594
Alleles: Mthfr em1Mcwi
Also Known As: SS-Mthfrem1Mcwi; SS-Mthfr^[em1Mcwi]
Type: mutant
Available Source: Not Available
Origination: PhysGen Knockouts
Description: This strain was produced by injecting ZFNs targeting the sequence CCCCAGCCCCCGATCtgaggGCAGCAGCAGTGGCA into SS/Jr
Last Known Status: Cryopreserved Sperm (as of 2017-01-26)
Position
Rat Assembly Chr Position (strand) Source JBrowse
mRatBN7.2 5 158,467,728 - 158,467,755 RGD_MAPPER_PIPELINE mRatBN7.2
Rnor_6.0 5 164,844,642 - 164,864,360 RGD_MAPPER_PIPELINE Rnor6.0
Rnor_5.0 5 168,502,556 - 168,522,350 RGD_MAPPER_PIPELINE Rnor5.0
RGSC_v3.4 5 165,112,850 - 165,126,885 RGD_MAPPER_PIPELINE RGSC3.4
Summary
Mutant Strains
Annotation
References
References - curated
Region
Allelic Variants
Additional Information
Nomenclature History
Mutant Strains
SS-Mthfrem1Mcwi+/+
SS-Mthfrem1Mcwi-/+

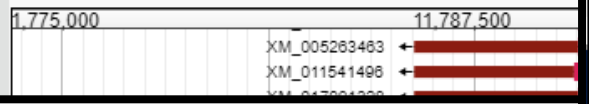
Gene: MTHFR (methylenetetrahydrofolate reductase) Homo sapiens

General | Array IDs

Symbol:	MTHFR
Name:	methylenetetrahydrofolate re
RGD ID:	733483
HGNC Page	HGNC:7436
Description:	Enables flavin adenine dinu tetrahydrofolate interconvers (multiple); and liver disease
Type:	protein-coding
RefSeq Status:	REVIEWED
Previously known as:	5,10-methylenetetrahydrofol
RGD Orthologs	
Alliance Orthologs	
More Info	more info ...
Allele / Splice:	See ClinVar data
Latest Assembly:	GRCh38 - Human Genome
Position:	

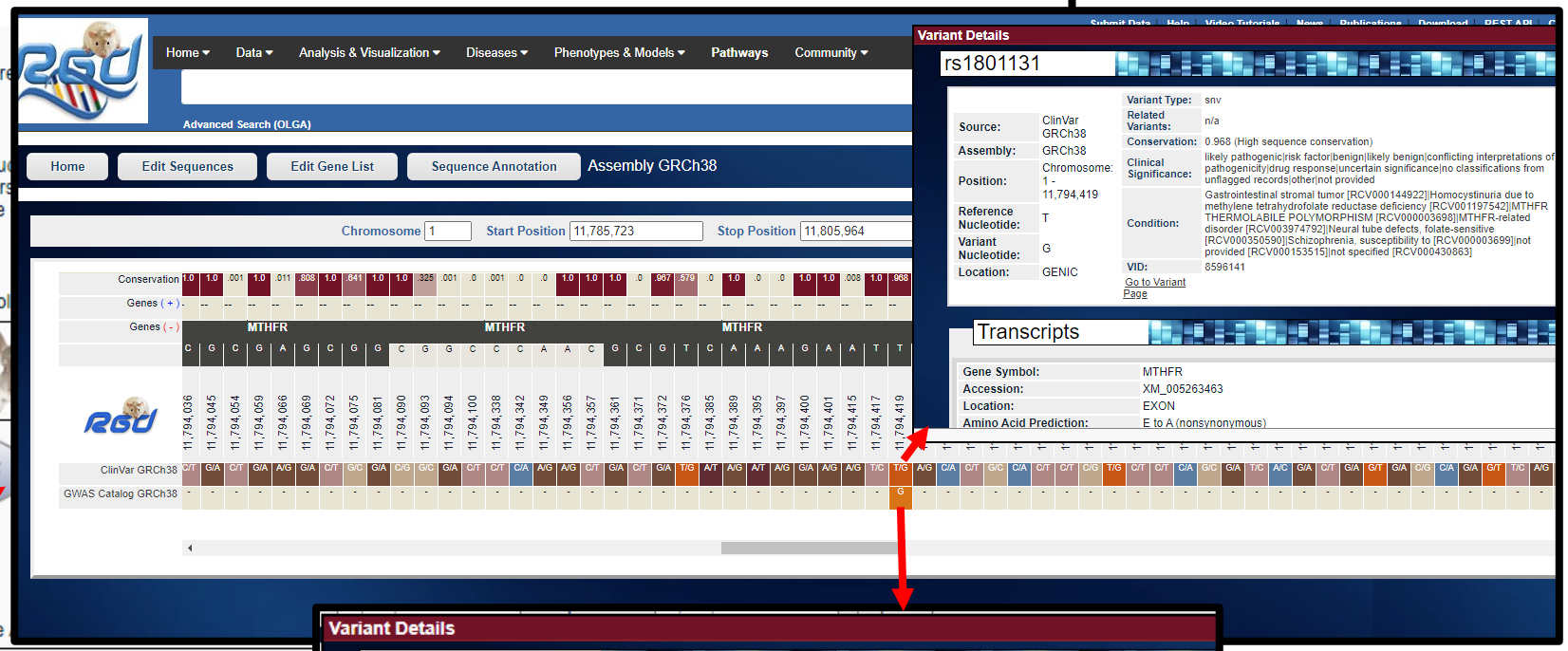
Human Assembly	Chr	Position (strand)
GRCh38	1	11,785,723 - 11,805,964 (-)
GRCh38.p14 Ensembl	1	11,785,723 - 11,806,455 (-)
GRCh37	1	11,845,780 - 11,866,021 (-)
Build 36	1	11,768,374 - 11,788,702 (-)
Build 34	1	11,780,944 - 11,800,248
Celera	1	10,959,433 - 10,979,782 (-)
Cytogenetic Map	1	p36.22
HuRef	1	11,000,872 - 11,021,217 (-)
CHM1_1	1	11,833,709 - 11,854,054 (-)
T2T-CHM13v2.0	1	11,329,802 - 11,350,048 (-)

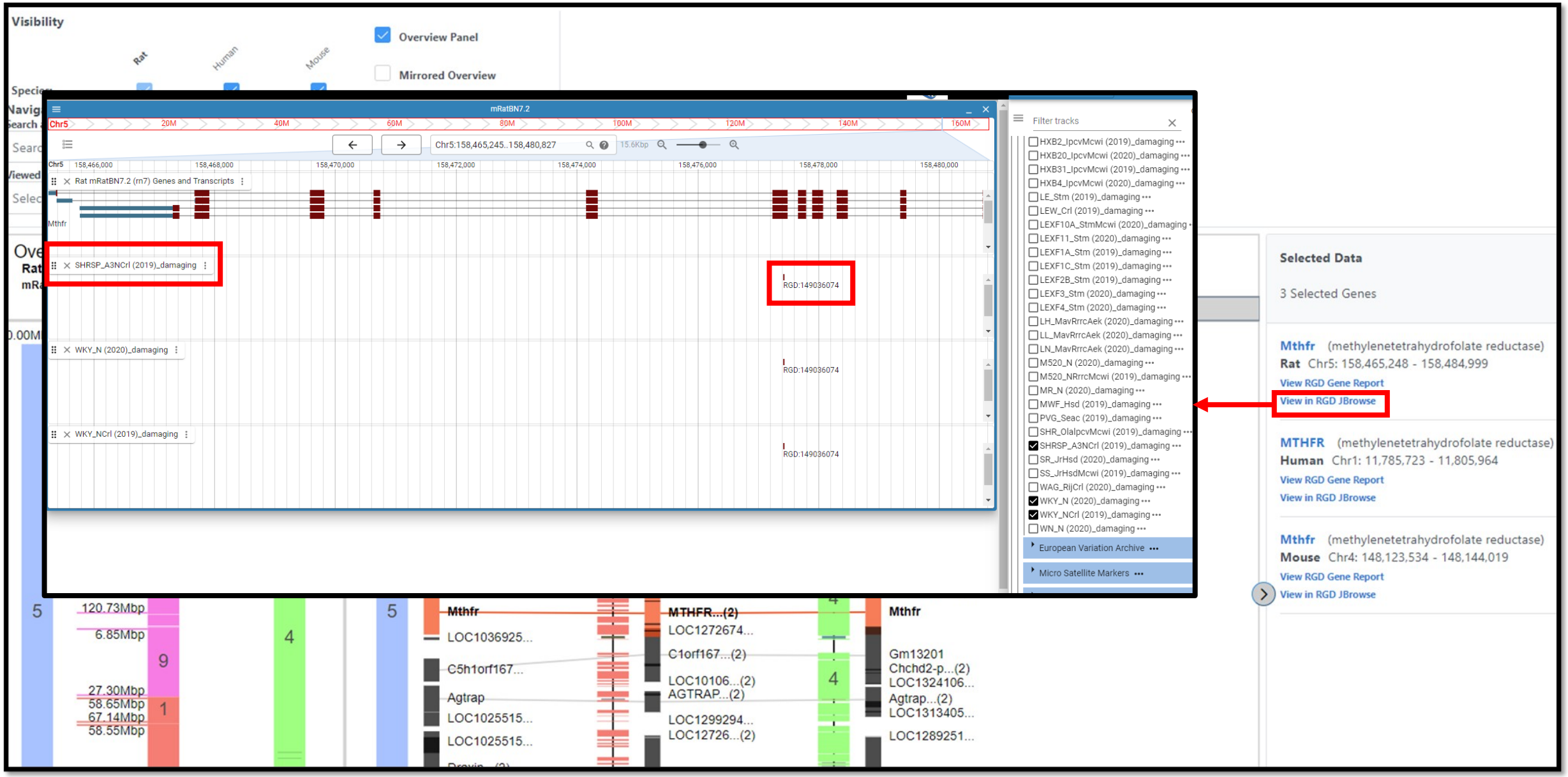
JBrowse: View Region in Genome Browser (JBrowse)

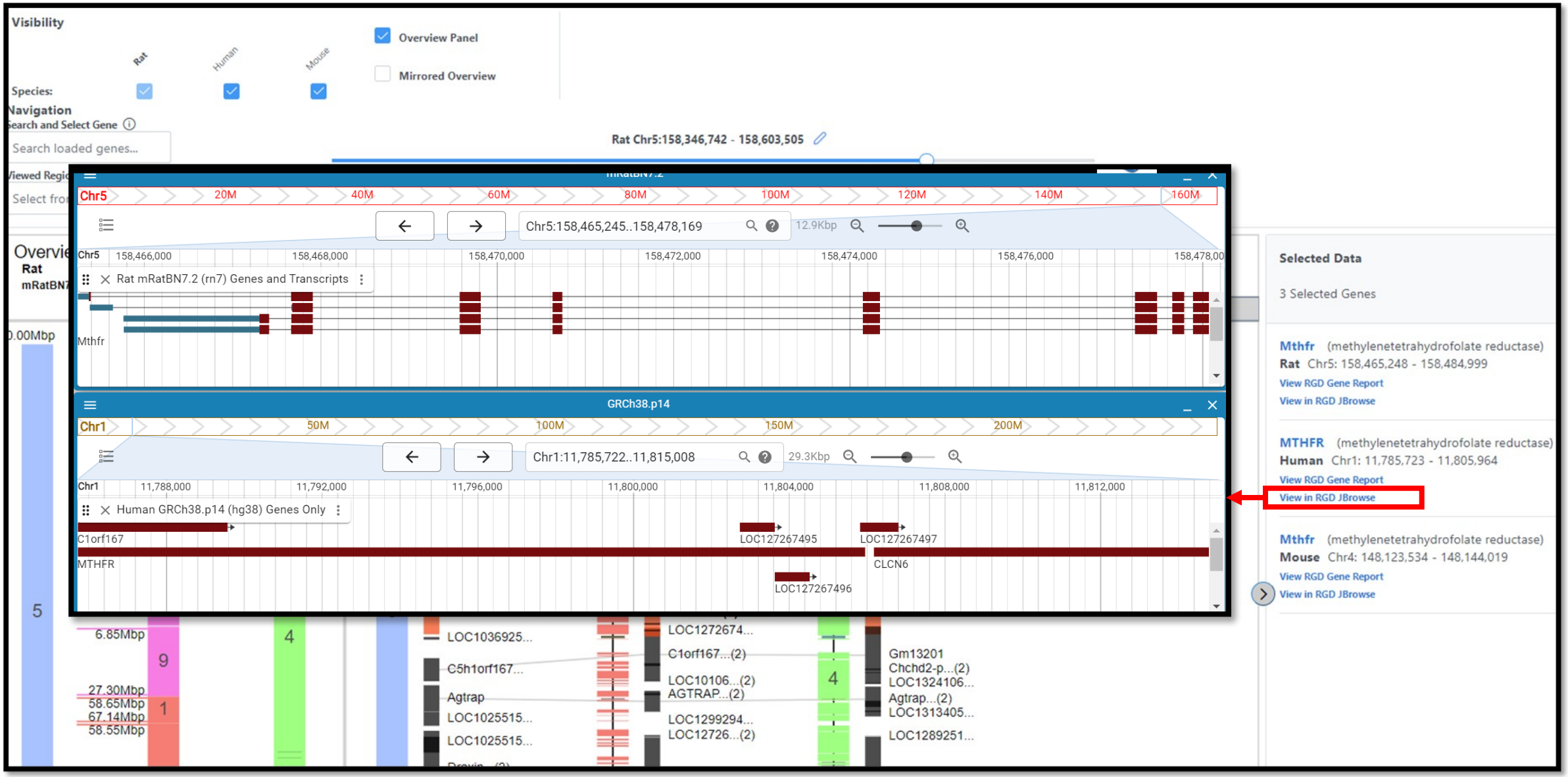


Summary

- Annotation
  - RGD Manual Disease
  - Imported Disease - ClinVar
  - Imported Disease - CTD
  - Imported Disease - MGI
  - Imported Disease - OMIM
  - Gene-Chemical Interaction
  - Gene Ontology
  - Molecular Pathway
  - Phenotype
  - Manual Human Phenotype -
  - Imported Human Phenotype -
  - Imported Human Phenotype -
- References
  - References - curated
  - PubMed References
- Genomics
  - Comparative Map Data
  - Variants
  - Clinical Variants
  - miRNA Target Status
  - QTLs in Region (GRCh38)
  - Markers in Region
- Expression
  - RNA-SEQ Expression




Visibility
Rat
Human
Mouse
Overview Panel
Mirrored Overview
mRatBN7.2
Chr5
20M
40M
60M
80M
100M
120M
140M
160M
Chr5:158,465,245..158,480,827
15.6Kbp
Rat mRatBN7.2 (rn7) Genes and Transcripts
Mthfr
SHRSP_A3NCrl (2019)_damaging
RGD:149036074
WKY_N (2020)_damaging
RGD:149036074
WKY_NCrl (2019)_damaging
RGD:149036074
Filter tracks
HXB2_IpcvMcwi (2019)_damaging
HXB20_IpcvMcwi (2020)_damaging
HXB31_IpcvMcwi (2019)_damaging
HXB4_IpcvMcwi (2020)_damaging
LE_Stm (2019)_damaging
LEW_Crl (2019)_damaging
LEXF10A_StmMcwi (2020)_damaging
LEXF11_Stm (2020)_damaging
LEXF1A_Stm (2019)_damaging
LEXF1C_Stm (2019)_damaging
LEXF2B_Stm (2019)_damaging
LEXF3_Stm (2020)_damaging
LEXF4_Stm (2020)_damaging
LH_MavRrrcAek (2020)_damaging
LL_MavRrrcAek (2020)_damaging
LN_MavRrrcAek (2020)_damaging
M520_N (2020)_damaging
M520_NRrrcMcwi (2019)_damaging
MR_N (2020)_damaging
MWF_Hsd (2019)_damaging
PVG_Seac (2019)_damaging
SHR_OlaIpcvMcwi (2019)_damaging
SHRSP_A3NCrl (2019)_damaging
SR_JrHsd (2020)_damaging
SS_JrHsdMcwi (2019)_damaging
WAG_RijCrl (2020)_damaging
WKY_N (2020)_damaging
WKY_NCrl (2019)_damaging
WN_N (2020)_damaging
European Variation Archive
Micro Satellite Markers
Selected Data
3 Selected Genes
Mthfr (methylenetetrahydrofolate reductase)
Rat Chr5: 158,465,248 - 158,484,999
View RGD Gene Report
View in RGD JBrowse
MTHFR (methylenetetrahydrofolate reductase)
Human Chr1: 11,785,723 - 11,805,964
View RGD Gene Report
View in RGD JBrowse
Mthfr (methylenetetrahydrofolate reductase)
Mouse Chr4: 148,123,534 - 148,144,019
View RGD Gene Report
View in RGD JBrowse
120.73Mbp
6.85Mbp
27.30Mbp
58.65Mbp
67.14Mbp
58.55Mbp
Mthfr
LOC1036925...
C5h1orf167...
Agtrap
LOC1025515...
LOC1025515...
MTHFR...(2)
LOC1272674...
C1orf167...(2)
LOC10106...(2)
AGTRAP...(2)
LOC1299294...
LOC12726...(2)
Mthfr
Gm13201
Chchd2-p...(2)
LOC1324106...
Agtrap...(2)
LOC1313405...
LOC1289251...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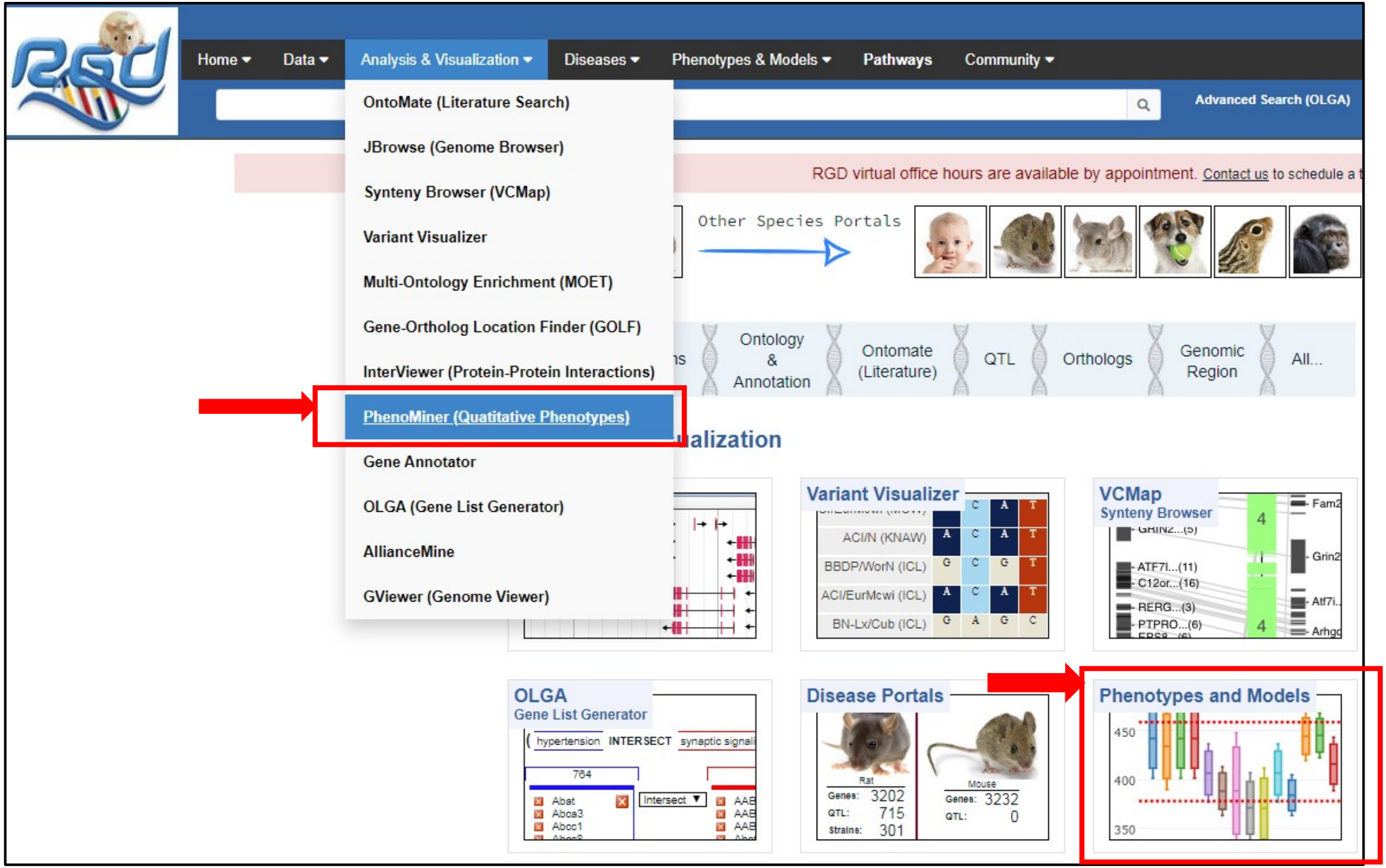
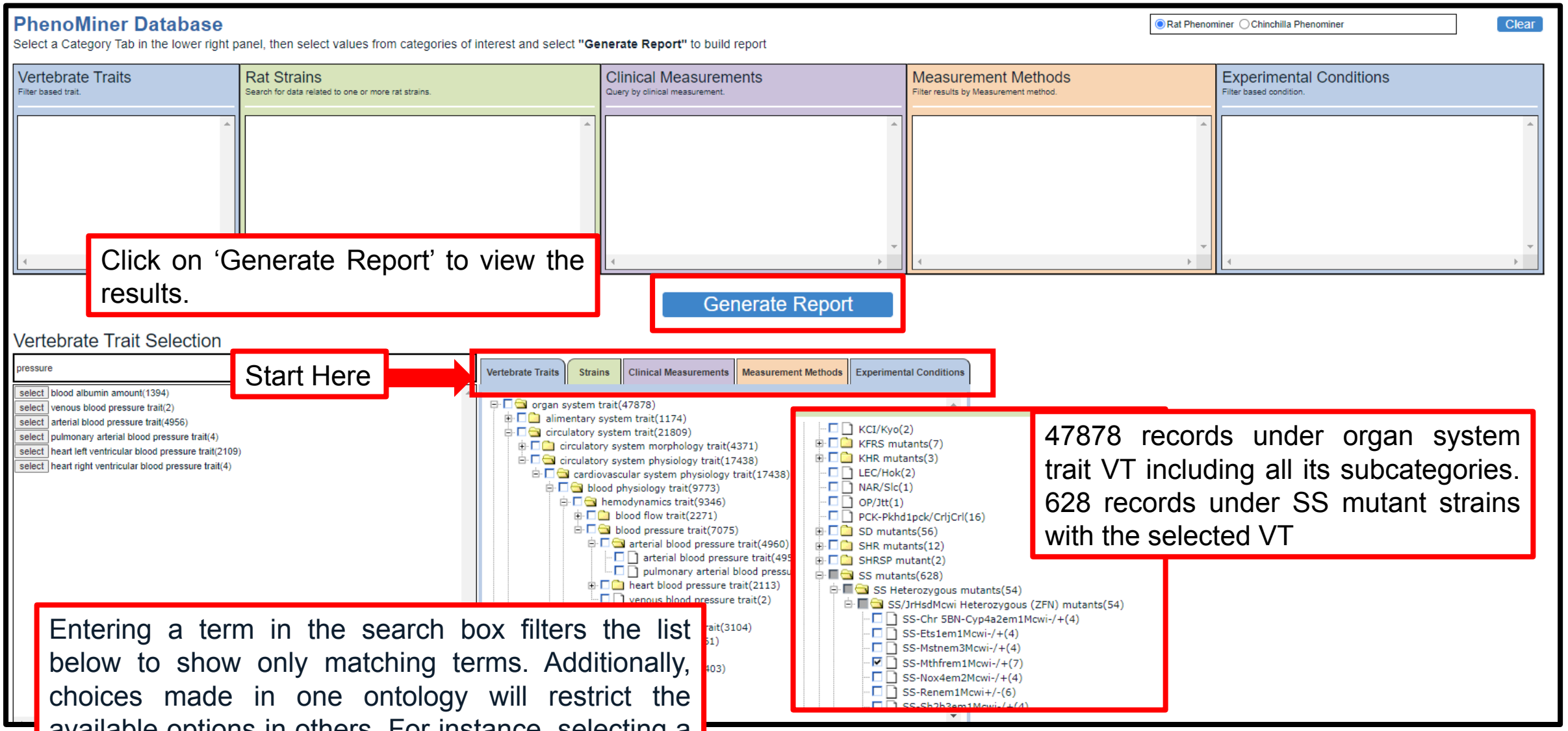
Rat Chr5:158,346,742 - 158,603,505
Chr5
20M
40M
60M
80M
100M
120M
140M
160M
Chr5:158,465,245..158,478,169
12.9Kbp
Chr5 158,466,000 158,468,000 158,470,000 158,472,000 158,474,000 158,476,000 158,478,00
Rat mRatBN7.2 (rn7) Genes and Transcripts
Mthfr
GRCh38.p14
Chr1
50M
100M
150M
200M
Chr1:11,785,722..11,815,008
29.3Kbp
Chr1 11,788,000 11,792,000 11,796,000 11,800,000 11,804,000 11,808,000 11,812,000
Human GRCh38.p14 (hg38) Genes Only
C1orf167
MTHFR
LOC127267495
LOC127267497
CLCN6
LOC127267496
Selected Data
3 Selected Genes
Mthfr (methylenetetrahydrofolate reductase)
Rat Chr5: 158,465,248 - 158,484,999
View RGD Gene Report
View in RGD JBrowse
MTHFR (methylenetetrahydrofolate reductase)
Human Chr1: 11,785,723 - 11,805,964
View RGD Gene Report
View in RGD JBrowse
Mthfr (methylenetetrahydrofolate reductase)
Mouse Chr4: 148,123,534 - 148,144,019
View RGD Gene Report
View in RGD JBrowse
6.85Mbp
27.30Mbp
58.65Mbp
67.14Mbp
58.55Mbp
LOC1036925...
C5h1orf167...
Agtrap
LOC1025515...
LOC1025515...
LOC1272674...
C1orf167...(2)
LOC10106...(2)
AGTRAP...(2)
LOC1299294...
LOC12726...(2)
Gm13201
Chchd2-p...(2)
LOC1324106...
Agtrap...(2)
LOC1313405...
LOC1289251...


Home
Data
Analysis & Visualization
Diseases
Phenotypes & Models
Pathways
Community
Advanced Search (OLGA)
OntoMate (Literature Search)
JBrowse (Genome Browser)
Synteny Browser (VCMap)
Variant Visualizer
Multi-Ontology Enrichment (MOET)
Gene-Ortholog Location Finder (GOLF)
InterViewer (Protein-Protein Interactions)
PhenoMiner (Quatitative Phenotypes)
Gene Annotator
OLGA (Gene List Generator)
AllianceMine
GViewer (Genome Viewer)
RGD virtual office hours are available by appointment. Contact us to schedule a t
Other Species Portals
Ontology & Annotation
Ontomate (Literature)
QTL
Orthologs
Genomic Region
All...
Variant Visualizer
ACI/N (KNAW)
BBDP/WorN (ICL)
ACI/EurMcwi (ICL)
BN-Lx/Cub (ICL)
VCMap
Synteny Browser
OLGA
Gene List Generator
hypertension
INTERSECT
764
Intersect
Disease Portals
Rat
Genes: 3202
QTL: 715
Strains: 301
Mouse
Genes: 3232
QTL: 0
Phenotypes and Models

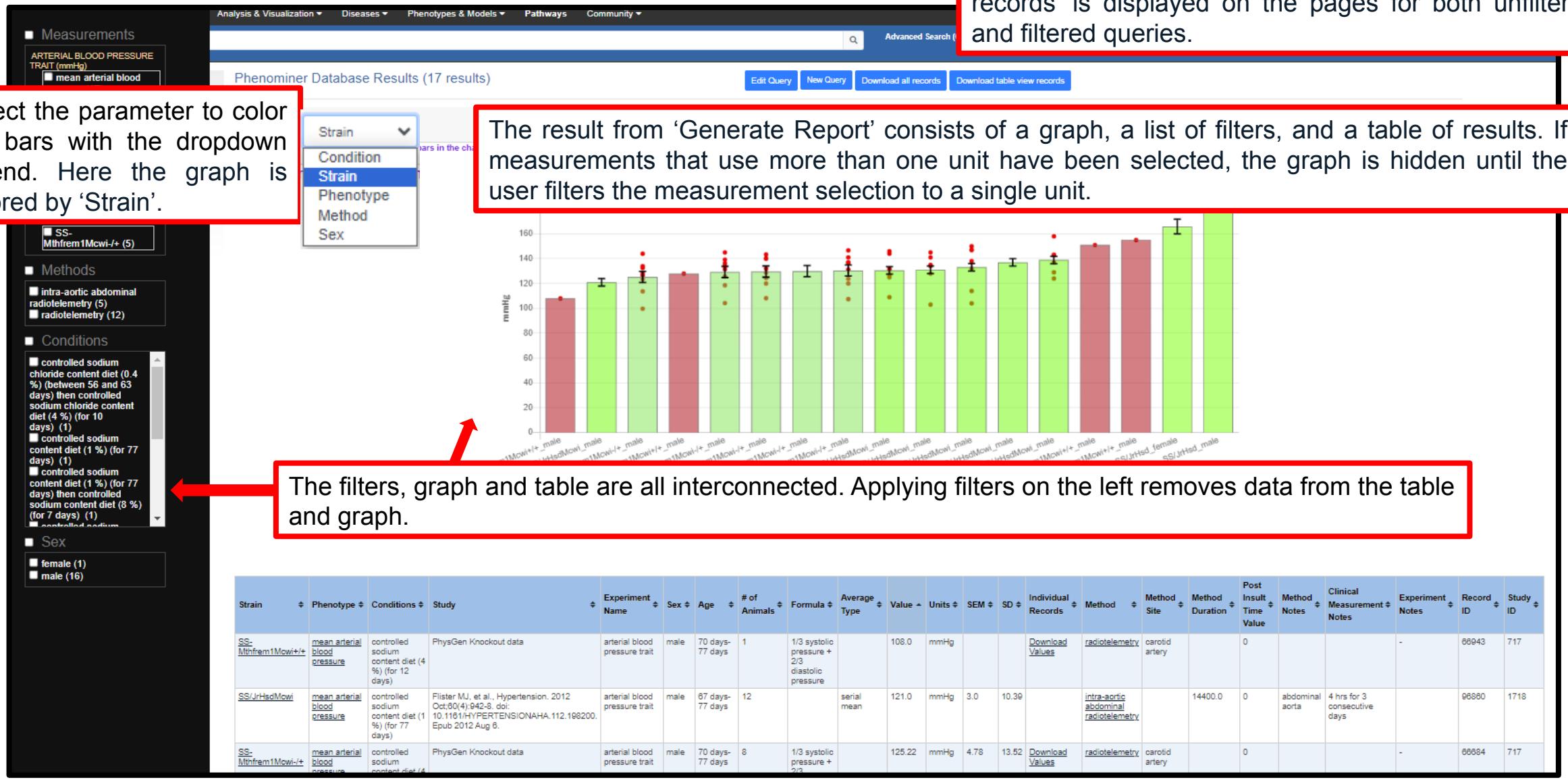

PhenoMiner Database
Select a Category Tab in the lower right panel, then select values from categories of interest and select "Generate Report" to build report
Rat Phenominer
Chinchilla Phenominer
Clear
Vertebrate Traits
Filter based trait.
Rat Strains
Search for data related to one or more rat strains.
Clinical Measurements
Query by clinical measurement.
Measurement Methods
Filter results by Measurement method.
Experimental Conditions
Filter based condition.
Click on 'Generate Report' to view the results.
Generate Report
Vertebrate Trait Selection
pressure
Start Here
select blood albumin amount(1394)
select venous blood pressure trait(2)
select arterial blood pressure trait(4956)
select pulmonary arterial blood pressure trait(4)
select heart left ventricular blood pressure trait(2109)
select heart right ventricular blood pressure trait(4)
Vertebrate Traits
Strains
Clinical Measurements
Measurement Methods
Experimental Conditions
organ system trait(47878)
alimentary system trait(1174)
circulatory system trait(21809)
circulatory system morphology trait(4371)
circulatory system physiology trait(17438)
cardiovascular system physiology trait(17438)
blood physiology trait(9773)
hemodynamics trait(9346)
blood flow trait(2271)
blood pressure trait(7075)
arterial blood pressure trait(4960)
arterial blood pressure trait(495
pulmonary arterial blood pressu
heart blood pressure trait(2113)
venous blood pressure trait(2)
KCI/Kyo(2)
KFRS mutants(7)
KHR mutants(3)
LEC/Hok(2)
NAR/Slc(1)
OP/Jtt(1)
PCK-Pkhd1pck/CrljCrl(16)
SD mutants(56)
SHR mutants(12)
SHRSP mutant(2)
SS mutants(628)
SS Heterozygous mutants(54)
SS/JrHsdMcwi Heterozygous (ZFN) mutants(54)
SS-Chr 5BN-Cyp4a2em1Mcwi-/+(4)
SS-Ets1em1Mcwi-/+(4)
SS-Mstnem3Mcwi-/+(4)
SS-Mthfrem1Mcwi-/+(7)
SS-Nox4em2Mcwi-/+(4)
SS-Renem1Mcwi+/-(6)
47878 records under organ system trait VT including all its subcategories. 628 records under SS mutant strains with the selected VT
Entering a term in the search box filters the list below to show only matching terms. Additionally, choices made in one ontology will restrict the available options in others. For instance, selecting a VT will narrow down the strains to only those with relevant measurement data.

Data from the query can be downloaded. ‘Download all records’ is displayed on the pages for both unfiltered and filtered queries.

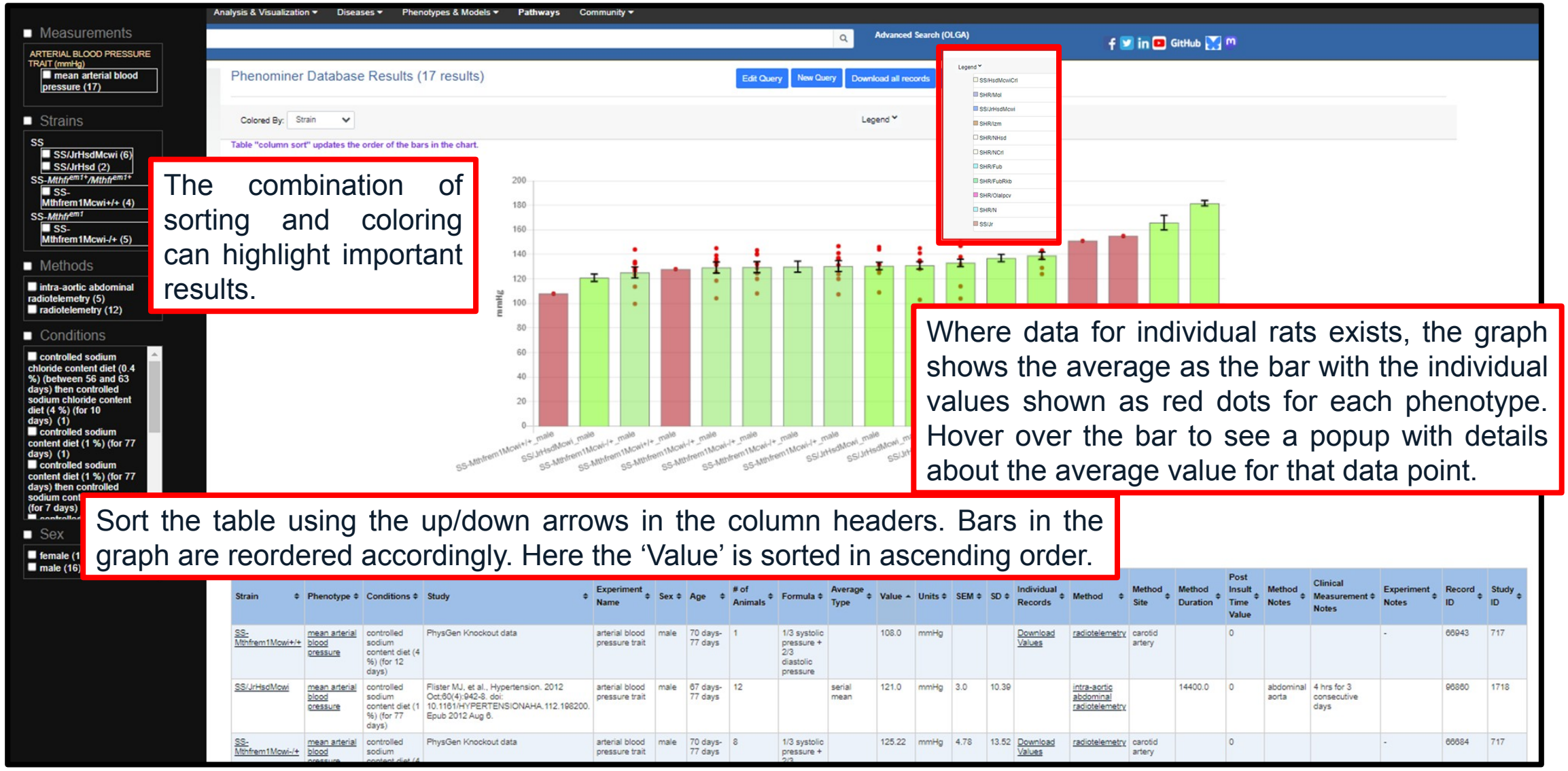
Select the parameter to color the bars with the dropdown legend. Here the graph is colored by ‘Strain’.

The result from ‘Generate Report’ consists of a graph, a list of filters, and a table of results. If measurements that use more than one unit have been selected, the graph is hidden until the user filters the measurement selection to a single unit.

The filters, graph and table are all interconnected. Applying filters on the left removes data from the table and graph.



Strain	Phenotype	Conditions	Study	Experiment Name	Sex	Age	# of Animals	Formula	Average Type	Value	Units	SEM	SD	Individual Records	Method	Method Site	Method Duration	Post Insult Time Value	Method Notes	Clinical Measurement Notes	Experiment Notes	Record ID	Study ID
SS-Mthfrem1Mcwi-/+	mean arterial blood pressure	controlled sodium content diet (4 %) (for 12 days)	PhysGen Knockout data	arterial blood pressure trait	male	70 days-77 days	1	1/3 systolic pressure + 2/3 diastolic pressure		108.0	mmHg			Download Values	radiotelemetry	carotid artery		0			-	66943	717
SS/JrHsdMcwi	mean arterial blood pressure	controlled sodium content diet (1 %) (for 77 days)	Flister MJ, et al., Hypertension. 2012 Oct;60(4):942-8. doi: 10.1161/HYPERTENSIONAHA.112.198200. Epub 2012 Aug 6.	arterial blood pressure trait	male	67 days-77 days	12		serial mean	121.0	mmHg	3.0	10.39		intra-aortic abdominal radiotelemetry		14400.0	0	abdominal aorta	4 hrs for 3 consecutive days		96860	1718
SS-Mthfrem1Mcwi-/+	mean arterial blood pressure	controlled sodium content diet (4	PhysGen Knockout data	arterial blood pressure trait	male	70 days-77 days	8	1/3 systolic pressure + 2/3		125.22	mmHg	4.78	13.52	Download Values	radiotelemetry	carotid artery		0			-	66684	717



The combination of sorting and coloring can highlight important results.

Where data for individual rats exists, the graph shows the average as the bar with the individual values shown as red dots for each phenotype. Hover over the bar to see a popup with details about the average value for that data point.

Sort the table using the up/down arrows in the column headers. Bars in the graph are reordered accordingly. Here the 'Value' is sorted in ascending order.

Strain	Phenotype	Conditions	Study	Experiment Name	Sex	Age	# of Animals	Formula	Average Type	Value	Units	SEM	SD	Individual Records	Method	Method Site	Method Duration	Post Insult Time Value	Method Notes	Clinical Measurement Notes	Experiment Notes	Record ID	Study ID
SS-Mthfrem1Mcwi+/+	mean arterial blood pressure	controlled sodium content diet (4 %) (for 12 days)	PhysGen Knockout data	arterial blood pressure trait	male	70 days-77 days	1	1/3 systolic pressure + 2/3 diastolic pressure		108.0	mmHg			Download Values	radiotelemetry	carotid artery		0			-	66943	717
SS/JrHsdMcwi	mean arterial blood pressure	controlled sodium content diet (1 %) (for 77 days)	Flister MJ, et al., Hypertension. 2012 Oct;60(4):942-8. doi: 10.1161/HYPERTENSIONAHA.112.198200. Epub 2012 Aug 6.	arterial blood pressure trait	male	67 days-77 days	12		serial mean	121.0	mmHg	3.0	10.39		intra-aortic abdominal radiotelemetry		14400.0	0	abdominal aorta	4 hrs for 3 consecutive days		96860	1718
SS-Mthfrem1Mcwi-/+	mean arterial blood pressure	controlled sodium	PhysGen Knockout data	arterial blood pressure trait	male	70 days-77 days	8	1/3 systolic pressure +		125.22	mmHg	4.78	13.52	Download Values	radiotelemetry	carotid artery		0			-	66684	717

Under controlled sodium content diet, mean arterial blood pressure differs between different SS strain types, influenced by the genetics, experimental conditions, age, etc. as shown in this graph.

The RGD Team:

Principal Investigator:
- Anne Kwitek, PhD

Co-Investigator:
- Mindy Dwinell, PhD

Curation Team:
- Jennifer Smith, MSc
- Stan Laulederkind, PhD
- Tom Hayman, PhD
- Shur-Jen Wang, PhD
- Monika Tutaj, PhD
- Mary Kaldunski, MSc
- Mahima Vedi, PhD
- Wendy Demos, MSc

Development Team:
- Jeff De Pons, BSc
- Marek Tutaj, MSc
- Jyothi Thota, MSc
- Logan Lamers, BA
- Adam Gibson, BSc
- Akhilanand Kundurthi, MSc
- Varun Reddy Gollapally, MSc

Systems Administrator:
- Kent C Brodie, MSMI

Database Administrator:
- Stacy Zacher, MSc

Thank you!

https://rgd.mcw.edu

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Rat Genome Database