



MMHCC Newsletter Summer 2009

MouseLine

Redesign of the Emice Website – Your Input needed!

Over the past 6 months, we have been working on improving the design of the Emice website. We want to realign the site to encompass all animal models and provide more educational resources.

The screenshot below illustrates some of the design ideas for the new website and the navigational tools.

The major categories are:

- About Animal Models
- Husbandry and Breeding
- Model Characterization
- Model Suppliers
- Model Generation
- Research Uses
- Models by Organ System

Your feedback can help ensure that all of the necessary information is available in the most usable way.

Please send your ideas and feedback to Dr. Cheryl Marks (marksc@mail.nih.gov) or Ulli Wagner (ulrike@mail.nih.gov)

The screenshot shows the eMICE website layout. At the top is the National Cancer Institute logo and the text "U.S. National Institutes of Health | www.cancer.gov". Below this is the eMICE logo and the text "electronic Models Information, Communication, and Education". A navigation menu includes links for "News and Events", "NCI Support of Model Research", and "About Emice". A secondary menu lists categories: "About Animal Models", "Husbandry and Breeding", "Model Characterization", "Model Suppliers", "Model Generation", "Research Uses", and "Models by Organ System". The main content area is titled "Mouse Cancer Models > Mice with Targeted Genetic Modifications > Transgenics". It contains a paragraph of placeholder text and a "More Information" box with links for "Transgenics", "Knock-outs", "Knock-ins", and "Conditional Alleles". A sidebar on the left lists "Mouse Cancer Models" with sub-links for "Mice with targeted genetic modifications", "Mice with cell or tissue transplants", and "Inbred mice", along with "Rat Cancer Models", "Other laboratory cancer models", and "Spontaneous tumors in other animals".



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Meetings

August 17 – 19, 2009

CHI's-IMVACS-The Immunotherapeutics & Vaccine Summit
Providence, Rhode Island

Meeting Information: <http://www.healthtech.com/imt/overview.aspx>

August 21 – 30, 2009

18th Annual Short Course on Experimental Models of Human Cancer
Bar Harbor, Maine

Meeting Information: <http://courses.jax.org/2009/grad09.html>

August 24 - 25, 2009

CHI's-The Bioprocessing Summit: Optimizing Cell Culture
Cambridge, Massachusetts

Meeting Information: <http://www.healthtech.com:80/bpd>

August 26 – 27, 2009

CHI's-The Bioprocessing Summit: Optimizing Mammalian Cell Lines
Cambridge, Massachusetts

Meeting Information: <http://www.healthtech.com:80/bpd>

August 29 – 30, 2009

18th Annual Short Course on Experimental Models of Human Cancer
Bar Harbor, Maine

Meeting Information: <http://courses.jax.org/2009/grad09.html>

September 11- 17, 2009

8th Annual Workshop on Pathology of Mouse Models for Human Disease
Bar Harbor, Maine

Meeting Information: <http://courses.jax.org/2009/path09.html>

September 13 – 16, 2009

AACR-Metabolism and Cancer
La Jolla, California

Meeting Information: <http://www.aacr.org/home/scientists/meetings--workshops/special-conferences/metabolism-and-cancer.aspx>





Notices and Funding Opportunities

Enterics Research Investigational Network Cooperative Research Centers (U19)

RFA-AI-09-023

National Institute of Allergy and Infectious Diseases

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-09-023.html>

The Early Detection Research Network: Biomarker Developmental Laboratories (U01)

RFA-CA-09-017

National Cancer Institute

<http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-09-017.html>

Basic and Clinical Studies of Congenital Urinary Tract Obstruction (R01)

PA-09-226

National Institute of Diabetes and Digestive and Kidney Diseases

Eunice Kennedy Shriver National Institute of Child Health and Human Development

<http://grants.nih.gov/grants/guide/pa-files/PA-09-226.html>

Recovery Act of 2009: Revised NIH Award Terms Available

NOT-OD-09-120

National Institutes of Health

American Reinvestment and Recovery Act of 2009

<http://grants.nih.gov/grants/guide/notice-files/NOT-OD-09-120.html>

What's new in caMOD

The following models have been approved for public display since the last newsletter was published. Visit <http://cancermodels.nci.nih.gov> to learn more about these new models.

50061598	Toxicity and efficacy of cisplatin and doxorubicin combination chemotherapy for the treatment of canine osteosarcoma	Dog
50061577	Cobalt radiation with or without low-dose cisplatin for treatment of canine naso-sinus carcinomas	Dog
50061554	Cisplatin for treatment of transitional cell and squamous cell carcinomas in dogs	Dog
50061668	Radiosensitization of human HCT-116 colon carcinoma by antimitotic agent, ABT-751, in athymic murine xenograft models of subcutaneous tumor growth	Mouse
50061661	Chemosensitization of human HT-29 colon cancer by antimitotic agent, ABT-751, in athymic murine xenograft models of subcutaneous tumor growth	Mouse
50061650	Chemosensitization of human Calu-6 non-small cell lung cancer by antimitotic agent, ABT-751, in athymic murine xenograft models of subcutaneous tumor growth	Mouse
50061637	Effect of the conformationally restricted polyamine analogue CGC-11047 in a murine model of non-small cell lung cancer	Mouse
50061797	Sorafenib and vinorelbine in mouse NCr-nu/nu model of human NCI-H460 non-small cell lung cancer	Mouse
50061897	Sorafenib and gefitinib in mouse NCr-nu/nu model of human MDA-MB-231 mammary adenocarcinoma	Mouse
50061905	Sorafenib and gefitinib in mouse NCr-nu/nu model of human A549 non-small cell lung cancer	Mouse
50061913	Sorafenib and cisplatin in mouse NCr-nu/nu model of human NCI-H23 non-small cell lung cancer	Mouse



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caBIG[®] Tools

caMOD 2.5.1 released

The caMOD team is pleased to announce the release of version 2.5.1 of the Cancer Models Database (caMOD)

Features of this release include:

EVS API upgrade

The EVS (formerly part of caCORE) API is a public domain, open source wrapper that provides full access to the LexBIG Terminology Server. LexBIG hosts the NCI Thesaurus, the NCI Metathesaurus, and several other vocabularies (like Zebrafish). The difference between the EVS 3.2 API exposed as part of the caCORE EVS 4.x and the API exposed as part of caCORE 3.2 is the back-end terminology server used to retrieve the vocabulary data.

caBIO API upgrade

The caMOD application connects to caBIO to retrieve additional data for the Therapeutic Approaches and Genetic Description search results screens. On the Therapeutic Approaches search results screen caMOD displays clinical trials data from caBIO. On the Genetic Description search results screen caMOD displays additional data within the Targeted Modification section for "Gene Info" (official nomenclature of the gene), Database Links to UniGene and CGAP, "Gene Ontology" (controlled vocabulary to describe gene and gene product attributes), and "BioCarta Pathways".

Additional Clinical Trials Information

Therapeutic experiments in animals have previously been linked to information about human clinical trials. caMOD now links to pages which provide details about the clinical trials.

New Species added

caMOD supports information about rabbit models for cancer.

For a full listing of items addressed in this release and known issues, please see the Release Notes:

<http://cancermodels.nci.nih.gov/camod/infoReleaseNotes.do>

How to access the application

Web Application

<http://cancermodels.nci.nih.gov>

Java API

<http://cbapp-p1001.nci.nih.gov:59180/camodSDKClient/Home.action>

Grid Service is accessible via the caGrid Portal

<http://cagrid-portal-ga.nci.nih.gov>





News from the Knock Out Mouse Project (KOMP)

The KOMP Repository is the official archive and distribution center for the Knockout Mouse Project (KOMP), a major 5-year trans-NIH initiative designed to generate null alleles in C57BL/6 embryonic stem (ES) cells for most genes not already available as knockout mice. Nearly 8500 genes are targeted for deletion, most in a conditional-ready format, by mutagenesis teams at "CSD" (Childrens Hospital of Oakland Research Institute, The Sanger Institute, and UC Davis) and at Regeneron, Inc. You can obtain targeting vectors, ES cells, mice, and germplasm, as well as microinjection, genotyping, cryopreservation, breeding, and other services quickly and at reasonable cost to help you with your research project.

<http://www.komp.org>

Abbreviation	Gene Name	Gene Info Page
0610009D07Rik	RIKEN cDNA 0610009D07 gene	http://www.komp.org/geneinfo.php?geneid=76
1700020A23Rik	RIKEN cDNA 1700020A23 gene	http://www.komp.org/geneinfo.php?geneid=2517
1700023F06Rik	RIKEN cDNA 1700023F06 gene	http://www.komp.org/geneinfo.php?geneid=2623
1700025D03Rik	RIKEN cDNA 1700025D03 gene	http://www.komp.org/geneinfo.php?geneid=2661
1700027D21Rik	RIKEN cDNA 1700027D21 gene	http://www.komp.org/geneinfo.php?geneid=2709
1700029P11Rik	RIKEN cDNA 1700029P11 gene	http://www.komp.org/geneinfo.php?geneid=2786
2010305A19Rik	RIKEN cDNA 2010305A19 gene	http://www.komp.org/geneinfo.php?geneid=4266
2310009B15Rik	RIKEN cDNA 2310009B15 gene	http://www.komp.org/geneinfo.php?geneid=4797
2310061I04Rik	RIKEN cDNA 2310061I04 gene	http://www.komp.org/geneinfo.php?geneid=5223
2700081O15Rik	RIKEN cDNA 2700081O15 gene	http://www.komp.org/geneinfo.php?geneid=6722
2900092E17Rik	RIKEN cDNA 2900092E17 gene	http://www.komp.org/geneinfo.php?geneid=7643
3110062M04Rik	RIKEN cDNA 3110062M04 gene	http://www.komp.org/geneinfo.php?geneid=8045
4833442J19Rik	RIKEN cDNA 4833442J19 gene	http://www.komp.org/geneinfo.php?geneid=8969
4921501E09Rik	RIKEN cDNA 4921501E09 gene	http://www.komp.org/geneinfo.php?geneid=8987
4921517D21Rik	RIKEN cDNA 4921517D21 gene	http://www.komp.org/geneinfo.php?geneid=9089
4930415F15Rik	RIKEN cDNA 4930415F15 gene	http://www.komp.org/geneinfo.php?geneid=9347
4930521A18Rik	RIKEN cDNA 4930521A18 gene	http://www.komp.org/geneinfo.php?geneid=10095
4930563D23Rik	RIKEN cDNA 4930563D23 gene	http://www.komp.org/geneinfo.php?geneid=10488
4930568D16Rik	RIKEN cDNA 4930568D16 gene	http://www.komp.org/geneinfo.php?geneid=10545
4931417E11Rik	RIKEN cDNA 4931417E11 gene	http://www.komp.org/geneinfo.php?geneid=10778
4933422H20Rik	RIKEN cDNA 4933422H20 gene	http://www.komp.org/geneinfo.php?geneid=11236
5830403L16Rik	RIKEN cDNA 5830403L16 gene	http://www.komp.org/geneinfo.php?geneid=12374
Abpa	androgen binding protein alpha	http://www.komp.org/geneinfo.php?geneid=18032
Acin1	apoptotic chromatin condensation inducer 1	http://www.komp.org/geneinfo.php?geneid=18115
Actn1	actinin, alpha 1	http://www.komp.org/geneinfo.php?geneid=18233
Acvr2b	activin receptor IIB	http://www.komp.org/geneinfo.php?geneid=18266
Adam3	a disintegrin and metallopeptidase domain 3 (cyritestin)	http://www.komp.org/geneinfo.php?geneid=18308
Adipoq	adiponectin, C1Q and collagen domain containing	http://www.komp.org/geneinfo.php?geneid=18425



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Adm	adrenomedullin	http://www.komp.org/geneinfo.php?geneid=18430
Adprhl1	ADP-ribosylhydrolase like 1	http://www.komp.org/geneinfo.php?geneid=18443
Aip	aryl-hydrocarbon receptor-interacting protein	http://www.komp.org/geneinfo.php?geneid=22550
Akp5	alkaline phosphatase 5	http://www.komp.org/geneinfo.php?geneid=22620
Alcam	activated leukocyte cell adhesion molecule	http://www.komp.org/geneinfo.php?geneid=23020
Ankrd34c	ankyrin repeat domain 34C	http://www.komp.org/geneinfo.php?geneid=28044
Apoa1	apolipoprotein A-I	http://www.komp.org/geneinfo.php?geneid=23528
Art1	ADP-ribosyltransferase 1	http://www.komp.org/geneinfo.php?geneid=23804
Artn	artemin	http://www.komp.org/geneinfo.php?geneid=23815
Atp1b2	ATPase, Na ⁺ /K ⁺ transporting, beta 2 polypeptide	http://www.komp.org/geneinfo.php?geneid=24049
Atp5c1	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, gamma polypeptide 1	http://www.komp.org/geneinfo.php?geneid=24069
BC003331	cDNA sequence BC003331	http://www.komp.org/geneinfo.php?geneid=29083
BC021785	cDNA sequence BC021785	http://www.komp.org/geneinfo.php?geneid=29300
BC062109	cDNA sequence BC062109	http://www.komp.org/geneinfo.php?geneid=29875
Blmh	bleomycin hydrolase	http://www.komp.org/geneinfo.php?geneid=30281
Bola1	boLA-like 1 (E. coli)	http://www.komp.org/geneinfo.php?geneid=30432
Cacna2d2	calcium channel, voltage-dependent, alpha 2/delta subunit 2	http://www.komp.org/geneinfo.php?geneid=32904
Cacng1	calcium channel, voltage-dependent, gamma subunit 1	http://www.komp.org/geneinfo.php?geneid=32911
Cad	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase	http://www.komp.org/geneinfo.php?geneid=32924
Camk2a	calcium/calmodulin-dependent protein kinase II alpha	http://www.komp.org/geneinfo.php?geneid=32990
Caml	calcium modulating ligand	http://www.komp.org/geneinfo.php?geneid=33002
Car1	carbonic anhydrase 1	http://www.komp.org/geneinfo.php?geneid=33064
Cbr1	carbonyl reductase 1	http://www.komp.org/geneinfo.php?geneid=33205
Cbr4	carbonyl reductase 4	http://www.komp.org/geneinfo.php?geneid=33208
Ccdc120	coiled-coil domain containing 120	http://www.komp.org/geneinfo.php?geneid=33254
Cd177	CD177 antigen	http://www.komp.org/geneinfo.php?geneid=33502
Cd200	CD200 antigen	http://www.komp.org/geneinfo.php?geneid=33513
Cd22	CD22 antigen	http://www.komp.org/geneinfo.php?geneid=33526
Cetn2	centrin 2	http://www.komp.org/geneinfo.php?geneid=33943
Chia	chitinase, acidic	http://www.komp.org/geneinfo.php?geneid=34081
Cldn5	claudin 5	http://www.komp.org/geneinfo.php?geneid=34378
Clic6	chloride intracellular channel 6	http://www.komp.org/geneinfo.php?geneid=34436
CN716893	expressed sequence CN716893	http://www.komp.org/geneinfo.php?geneid=34548
Col9a3	collagen, type IX, alpha 3	http://www.komp.org/geneinfo.php?geneid=34727
Cpped1	Vcalcineurin-like phosphoesterase domain containing 1	http://www.komp.org/geneinfo.php?geneid=31509



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Crebl2	cAMP responsive element binding protein-like 2	http://www.komp.org/geneinfo.php?geneid=34973
Csdc2	cold shock domain containing C2, RNA binding	http://www.komp.org/geneinfo.php?geneid=35144
Ctf2	cardiotrophin 2	http://www.komp.org/geneinfo.php?geneid=35256
D930028M14Rik	RIKEN cDNA D930028M14 gene	http://www.komp.org/geneinfo.php?geneid=93790
Ddit3	DNA-damage inducible transcript 3	http://www.komp.org/geneinfo.php?geneid=53715
Ddit4	DNA-damage-inducible transcript 4	http://www.komp.org/geneinfo.php?geneid=53716
Depdc1b	DEP domain containing 1B	http://www.komp.org/geneinfo.php?geneid=54042
Dio3	deiodinase, iodothyronine type III	http://www.komp.org/geneinfo.php?geneid=54183
Dnajb7	DnaJ (Hsp40) homolog, subfamily B, member 7	http://www.komp.org/geneinfo.php?geneid=54340
Dsg1b	desmoglein 1 beta	http://www.komp.org/geneinfo.php?geneid=54606
Dusp1	dual specificity phosphatase 1	http://www.komp.org/geneinfo.php?geneid=54676
Dync1h1	dynein cytoplasmic 1 heavy chain 1	http://www.komp.org/geneinfo.php?geneid=55687
E330017A01Rik	RIKEN cDNA E330017A01 gene	http://www.komp.org/geneinfo.php?geneid=56066
Eef1d	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein)	http://www.komp.org/geneinfo.php?geneid=56398
Eepd1	endonuclease/exonuclease/phosphatase family domain containing 1	http://www.komp.org/geneinfo.php?geneid=4749
Efnb3	ephrin B3	http://www.komp.org/geneinfo.php?geneid=56437
Egln2	EGL nine homolog 2 (C. elegans)	http://www.komp.org/geneinfo.php?geneid=56466
Endog	endonuclease G	http://www.komp.org/geneinfo.php?geneid=56866
Etv5	ets variant gene 5	http://www.komp.org/geneinfo.php?geneid=57356
Fam122a	family with sequence similarity 122, member A	http://www.komp.org/geneinfo.php?geneid=7362
Fam160a1	family with sequence similarity 160, member A1	http://www.komp.org/geneinfo.php?geneid=14641
Fam92b	family with sequence similarity 92, member B	http://www.komp.org/geneinfo.php?geneid=3409
Fbxl17	F-box and leucine-rich repeat protein 17	http://www.komp.org/geneinfo.php?geneid=57728
Fbxl8	F-box and leucine-rich repeat protein 8	http://www.komp.org/geneinfo.php?geneid=57741
Fbxo44	F-box protein 44	http://www.komp.org/geneinfo.php?geneid=57776
Flrt3	fibronectin leucine rich transmembrane protein 3	http://www.komp.org/geneinfo.php?geneid=58109
Foxb1	forkhead box B1	http://www.komp.org/geneinfo.php?geneid=58214
Foxq1	forkhead box Q1	http://www.komp.org/geneinfo.php?geneid=58252
Fshr	follicle stimulating hormone receptor	http://www.komp.org/geneinfo.php?geneid=58323
Fzd2	frizzled homolog 2 (Drosophila)	http://www.komp.org/geneinfo.php?geneid=58443
Gc	group specific component	http://www.komp.org/geneinfo.php?geneid=58756
Gira2	glycine receptor, alpha 2 subunit	http://www.komp.org/geneinfo.php?geneid=59094
Glt8d4	glycosyltransferase 8 domain containing 4	http://www.komp.org/geneinfo.php?geneid=29743
Gm806	predicted gene 806	http://www.komp.org/geneinfo.php?geneid=60916





Gnb2	guanine nucleotide binding protein (G protein), beta 2	http://www.komp.org/geneinfo.php?geneid=61184
Gpa33	glycoprotein A33 (transmembrane)	http://www.komp.org/geneinfo.php?geneid=61274
Gpr149	G protein-coupled receptor 149	http://www.komp.org/geneinfo.php?geneid=61389
Gpr31c	G protein-coupled receptor 31, D17Leh66c region	http://www.komp.org/geneinfo.php?geneid=61431
Grk1	G protein-coupled receptor kinase 1	http://www.komp.org/geneinfo.php?geneid=61596
Gtf2h1	general transcription factor II H, polypeptide 1	http://www.komp.org/geneinfo.php?geneid=61907
Hcls1	hematopoietic cell specific Lyn substrate 1	http://www.komp.org/geneinfo.php?geneid=62498
Hpn	hepsin	http://www.komp.org/geneinfo.php?geneid=63346
Hsf2	heat shock factor 2	http://www.komp.org/geneinfo.php?geneid=63480
Hyls1	hydrolethalus syndrome 1	http://www.komp.org/geneinfo.php?geneid=63696
Ifitm6	interferon induced transmembrane protein 6	http://www.komp.org/geneinfo.php?geneid=64216
Ifrd1	interferon-related developmental regulator 1	http://www.komp.org/geneinfo.php?geneid=64253
Il1f8	interleukin 1 family, member 8	http://www.komp.org/geneinfo.php?geneid=64579
Insm1	insulinoma-associated 1	http://www.komp.org/geneinfo.php?geneid=64870
Irg1	immunoresponsive gene 1	http://www.komp.org/geneinfo.php?geneid=64998
Itgb1bp2	integrin beta 1 binding protein 2	http://www.komp.org/geneinfo.php?geneid=65081
Itgbl1	integrin, beta-like 1	http://www.komp.org/geneinfo.php?geneid=65093
Kat2b	K(lysine) acetyltransferase 2B	http://www.komp.org/geneinfo.php?geneid=73621
Kcnd2	potassium voltage-gated channel, Shal-related family, member 2	http://www.komp.org/geneinfo.php?geneid=65319
Kifc2	kinesin family member C2	http://www.komp.org/geneinfo.php?geneid=65521
Klhl25	kelch-like 25 (Drosophila)	http://www.komp.org/geneinfo.php?geneid=65602
Klhl38	kelch-like 38 (Drosophila)	http://www.komp.org/geneinfo.php?geneid=13428
Krtap26-1	keratin associated protein 26-1	http://www.komp.org/geneinfo.php?geneid=4683
Lima1	LIM domain and actin binding 1	http://www.komp.org/geneinfo.php?geneid=66579
Llg2	lethal giant larvae homolog 2 (Drosophila)	http://www.komp.org/geneinfo.php?geneid=66649
Lpl	lipoprotein lipase	http://www.komp.org/geneinfo.php?geneid=66823
Lrguk	leucine-rich repeats and guanylate kinase domain containing	http://www.komp.org/geneinfo.php?geneid=9158
Lst1	leukocyte specific transcript 1	http://www.komp.org/geneinfo.php?geneid=67038
Lyz1	lysozyme-like 1	http://www.komp.org/geneinfo.php?geneid=67388
Lztf1	leucine zipper transcription factor-like 1	http://www.komp.org/geneinfo.php?geneid=67399
Mark2	MAP/microtubule affinity-regulating kinase 2	http://www.komp.org/geneinfo.php?geneid=67747
Mcart1	mitochondrial carrier triple repeat 1	http://www.komp.org/geneinfo.php?geneid=67884
Mettl7b	methyltransferase like 7B	http://www.komp.org/geneinfo.php?geneid=68128
Mfap3l	microfibrillar-associated protein 3-like mannoside	http://www.komp.org/geneinfo.php?geneid=68138
Mgat2	acetylglucosaminyltransferase 2	http://www.komp.org/geneinfo.php?geneid=68179



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Mrpl13	mitochondrial ribosomal protein L13	http://www.komp.org/geneinfo.php?geneid=69291
Msrb3	methionine sulfoxide reductase B3	http://www.komp.org/geneinfo.php?geneid=69589
Myd88	myeloid differentiation primary response gene 88	http://www.komp.org/geneinfo.php?geneid=69968
Myh11	myosin, heavy polypeptide 11, smooth muscle	http://www.komp.org/geneinfo.php?geneid=69977
Myo10	myosin X	http://www.komp.org/geneinfo.php?geneid=70041
Ndst3	N-deacetylase/N-sulfotransferase (heparan glucosaminy) 3	http://www.komp.org/geneinfo.php?geneid=70320
Nf2	neurofibromatosis 2	http://www.komp.org/geneinfo.php?geneid=70448
Ng23	Ng23 protein	http://www.komp.org/geneinfo.php?geneid=70492
Nkapl	NFKB activating protein-like	http://www.komp.org/geneinfo.php?geneid=8997
Nle1	notchless homolog 1 (Drosophila)	http://www.komp.org/geneinfo.php?geneid=70646
Nlrp3	NLR family, pyrin domain containing 3	http://www.komp.org/geneinfo.php?geneid=34218
Nmi	N-myc (and STAT) interactor	http://www.komp.org/geneinfo.php?geneid=70744
Npb	neuropeptide B	http://www.komp.org/geneinfo.php?geneid=70858
Npepps	aminopeptidase puromycin sensitive	http://www.komp.org/geneinfo.php?geneid=70865
Nthl1	nth (endonuclease III)-like 1 (E.coli)	http://www.komp.org/geneinfo.php?geneid=71053
Obfc2b	oligonucleotide/oligosaccharide-binding fold containing 2B	http://www.komp.org/geneinfo.php?geneid=71292
Ogg1	8-oxoguanine DNA-glycosylase 1	http://www.komp.org/geneinfo.php?geneid=71437
Papola	poly (A) polymerase alpha	http://www.komp.org/geneinfo.php?geneid=73461
Pbx2	pre B-cell leukemia transcription factor 2	http://www.komp.org/geneinfo.php?geneid=73610
Pbx3	pre B-cell leukemia transcription factor 3	http://www.komp.org/geneinfo.php?geneid=73611
Pcbp1	pterin 4 alpha carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 1	http://www.komp.org/geneinfo.php?geneid=73627
Pcx	pyruvate carboxylase	http://www.komp.org/geneinfo.php?geneid=73799
Pf4	platelet factor 4	http://www.komp.org/geneinfo.php?geneid=35390
Phc2	polyhomeotic-like 2 (Drosophila)	http://www.komp.org/geneinfo.php?geneid=74185
Pja2	praja 2, RING-H2 motif containing	http://www.komp.org/geneinfo.php?geneid=74408
Pkn2	protein kinase N2	http://www.komp.org/geneinfo.php?geneid=74457
Plcxd1	phosphatidylinositol-specific phospholipase C, X domain containing 1	http://www.komp.org/geneinfo.php?geneid=74546
Prokr1	prokineticin receptor 1	http://www.komp.org/geneinfo.php?geneid=75407
Prpf31	PRP31 pre-mRNA processing factor 31 homolog (yeast)	http://www.komp.org/geneinfo.php?geneid=75427
Prrt2	proline-rich transmembrane protein 2	http://www.komp.org/geneinfo.php?geneid=1885
Psapl1	prosaposin-like 1	http://www.komp.org/geneinfo.php?geneid=4897
Ptbp1	polypyrimidine tract binding protein 1	http://www.komp.org/geneinfo.php?geneid=75655
Rab3a	RAB3A, member RAS oncogene family	http://www.komp.org/geneinfo.php?geneid=76117
Rap1gap	Rap1 GTPase-activating protein	http://www.komp.org/geneinfo.php?geneid=76278
Rap2b	RAP2B, member of RAS oncogene family	http://www.komp.org/geneinfo.php?geneid=76281



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Rb1	retinoblastoma 1	http://www.komp.org/geneinfo.php?geneid=76580
Ren1	renin 1 structural	http://www.komp.org/geneinfo.php?geneid=76785
Retnlb	resistin like beta	http://www.komp.org/geneinfo.php?geneid=76836
Rhob	ras homolog gene family, member B	http://www.komp.org/geneinfo.php?geneid=76961
Rnf138	ring finger protein 138	http://www.komp.org/geneinfo.php?geneid=77210
Rps27l	ribosomal protein S27-like	http://www.komp.org/geneinfo.php?geneid=77716
Rps6ka6	ribosomal protein S6 kinase polypeptide 6	http://www.komp.org/geneinfo.php?geneid=77749
Rps9	ribosomal protein S9	http://www.komp.org/geneinfo.php?geneid=77778
S1pr4	sphingosine-1-phosphate receptor 4	http://www.komp.org/geneinfo.php?geneid=56368
Sds	serine dehydratase	http://www.komp.org/geneinfo.php?geneid=78377
Sel1l	sel-1 suppressor of lin-12-like (C. elegans)	http://www.komp.org/geneinfo.php?geneid=78447
Serpinc1	serine (or cysteine) peptidase inhibitor, clade C (antithrombin), member 1	http://www.komp.org/geneinfo.php?geneid=78613
Sertad1	SERTA domain containing 1	http://www.komp.org/geneinfo.php?geneid=78624
Sf3b5	splicing factor 3b, subunit 5	http://www.komp.org/geneinfo.php?geneid=78681
Sftpa1	surfactant associated protein A1	http://www.komp.org/geneinfo.php?geneid=78727
Sirt6	sirtuin 6 (silent mating type information regulation 2, homolog) 6 (S. cerevisiae)	http://www.komp.org/geneinfo.php?geneid=78968
Slamf9	SLAM family member 9	http://www.komp.org/geneinfo.php?geneid=79153
Slc15a2	solute carrier family 15 (H+/peptide transporter), member 2	http://www.komp.org/geneinfo.php?geneid=79183
Slc25a22	solute carrier family 25 (mitochondrial carrier, glutamate), member 22	http://www.komp.org/geneinfo.php?geneid=79279
Slc2a3	solute carrier family 2 (facilitated glucose transporter), member 3	http://www.komp.org/geneinfo.php?geneid=79325
Sipi	secretory leukocyte peptidase inhibitor	http://www.komp.org/geneinfo.php?geneid=79563
Sorcs2	sortilin-related VPS10 domain containing receptor 2	http://www.komp.org/geneinfo.php?geneid=79866
Spag17	sperm associated antigen 17	http://www.komp.org/geneinfo.php?geneid=79925
Spint2	serine protease inhibitor, Kunitz type 2	http://www.komp.org/geneinfo.php?geneid=80057
Sptlc2	serine palmitoyltransferase, long chain base subunit 2	http://www.komp.org/geneinfo.php?geneid=80174
Srfbp1	serum response factor binding protein 1	http://www.komp.org/geneinfo.php?geneid=80242
Sumo2	SMT3 suppressor of mif two 3 homolog 2 (yeast)	http://www.komp.org/geneinfo.php?geneid=80647
Syt8	synaptotagmin VIII	http://www.komp.org/geneinfo.php?geneid=80829
Tada3l	transcriptional adaptor 3 (NGG1 homolog, yeast)-like	http://www.komp.org/geneinfo.php?geneid=81299
Tctn1	tectonic family member 1	http://www.komp.org/geneinfo.php?geneid=58526
Tdh	L-threonine dehydrogenase	http://www.komp.org/geneinfo.php?geneid=82003
Tekt4	tektin 4	http://www.komp.org/geneinfo.php?geneid=82043
Ticam1	toll-like receptor adaptor molecule 1	http://www.komp.org/geneinfo.php?geneid=84107
Tle2	transducin-like enhancer of split 2, homolog of Drosophila E(spl)	http://www.komp.org/geneinfo.php?geneid=84211



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Tmem177	transmembrane protein 177	http://www.komp.org/geneinfo.php?geneid=4655
Tmsb10	thymosin, beta 10	http://www.komp.org/geneinfo.php?geneid=84600
Tnks2	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2	http://www.komp.org/geneinfo.php?geneid=84695
Tor1a	torsin family 1, member A (torsin A)	http://www.komp.org/geneinfo.php?geneid=84765
Trem1	triggering receptor expressed on myeloid cells 1	http://www.komp.org/geneinfo.php?geneid=84925
Trpm8	transient receptor potential cation channel, subfamily M, member 8	http://www.komp.org/geneinfo.php?geneid=85098
Try4	trypsin 4	http://www.komp.org/geneinfo.php?geneid=85126
Tspan4	tetraspanin 4	http://www.komp.org/geneinfo.php?geneid=85238
Ttc24	tetratricopeptide repeat domain 24	http://www.komp.org/geneinfo.php?geneid=15105
Tuba4a	tubulin, alpha 4A	http://www.komp.org/geneinfo.php?geneid=85365
Tymp	thymidine phosphorylase	http://www.komp.org/geneinfo.php?geneid=56331
Upp1	uridine phosphorylase 1	http://www.komp.org/geneinfo.php?geneid=85763
Usp32	ubiquitin specific peptidase 32	http://www.komp.org/geneinfo.php?geneid=85827
Utp3	UTP3, small subunit (SSU) processome component, homolog (S. cerevisiae)	http://www.komp.org/geneinfo.php?geneid=35058
Uts2r	urotensin 2 receptor	http://www.komp.org/geneinfo.php?geneid=85871
Xkr6	X Kell blood group precursor related family member 6 homolog	http://www.komp.org/geneinfo.php?geneid=86679
Zfp318	zinc finger protein 318	http://www.komp.org/geneinfo.php?geneid=87479
Zfp41	zinc finger protein 41	http://www.komp.org/geneinfo.php?geneid=87527
Zfp54	zinc finger protein 54	http://www.komp.org/geneinfo.php?geneid=87588
Zfp867	zinc finger protein 867	http://www.komp.org/geneinfo.php?geneid=29748
Zmynd15	zinc finger, MYND-type containing 15	http://www.komp.org/geneinfo.php?geneid=87778

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