

**NIEHS Request Status**

**Knock-out Mouse Lines**

**NHGRI Re-patriation Contracts**

NIEHS Priority	Gene Name	Gene Symbol	Purchased?	MGI Gene ID	Sequence ID	Knockout Method	lacZ marker?	lacZ Expression Data?	Aging Data?	In IMSR?	# of alleles in MGI	Allele Types in MGI	MGI Observed Effects
1	cell division cycle 25 homolog A (S. cerevisiae)	<a href="#">Cdc25a</a>	Yes	MGI:103198	NM_007658	Trapped	No	No	No		1	Spontaneous	
1	estrogen related receptor, alpha	<a href="#">Esrra</a>	Yes	MGI:1346831	NM_007953	Targeted	Yes	Yes	No		2	Targeted (knock-out)	adipose tissue, growth/size
1	inositol hexaphosphate kinase 1	<a href="#">Ihpk1</a>	Yes	MGI:1351633	NM_013785	Trapped	No	No	No				
1	MAP kinase-activated protein kinase 2	<a href="#">Mapkapk2</a>	Yes	MGI:109298	NM_008551	Targeted	Yes	No	No		1	Targeted (knock-out)	immune system
1	potassium voltage-gated channel, subfamily H (eag-related), member 5	<a href="#">Kcnh5</a>	Yes	MGI:3584508	NM_172805	Targeted	Yes	Yes	No				
1	protein phosphatase 5 catalytic subunit	<a href="#">Ppp5c</a>	Yes	MGI:102666	AF018262	Targeted	Yes	No	No				
1	solute carrier family 22 (organic anion transporter), member 6	<a href="#">Slc22a6</a>	Yes	MGI:892001	NM_008766	Targeted	Yes	Yes	Yes				
1	solute carrier family 22 (organic anion/cation transporter), member 12	<a href="#">Slc22a12</a>	Yes	MGI:1195269	AB005451	Targeted	Yes	Yes	Yes		1	Targeted (knock-out)	
1	solute carrier organic anion transporter family, member 1a5	<a href="#">Slco1a5</a>	Yes	MGI:1351865	NM_130861	Targeted	Yes	No	No				
1	thioredoxin domain containing 2 (spermatozoa)	<a href="#">Txnrc2</a>	Yes	MGI:2389312	NM_153519	Conditional	No	No	No				
1	toll-like receptor 2	<a href="#">Tlr2</a>	Yes	MGI:1346060	AF216289	Targeted	No	No	Yes	Yes	2	Targeted (knock-out)	immune system, life span-post-weaning/aging

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2	estrogen-related receptor gamma	<a href="#">Esrrg</a>	Yes	MGI:1347056	AF117254	Targeted	Yes	Yes	No		1	Targeted (knock-out)	
2	phosphatidylinositol 3-kinase catalytic delta polypeptide	<a href="#">Pik3cd</a>	Yes	MGI:1098211	NM_008840	Trapped	No	No	No		4	Targeted (knock-out), Targeted (Reporter), Targeted (knock-in)	digestive/alimentary, endocrine/exocrine gland, hematopoietic system, immune system
2	phosphatidylinositol 3-kinase, catalytic, beta polypeptide	<a href="#">Pik3cb</a>	Yes	MGI:1922019	AK090116	Trapped	No	No	No		1	Targeted (knock-out)	lethality-embryonic/perinatal, normal
3	glutathione reductase 1	<a href="#">Gsr</a>	Yes	MGI:95804	NM_010344	Trapped	No	No	No		1	Chemically induced	
3	glutathione S-transferase, alpha 4	<a href="#">Gsta4</a>	Yes	MGI:1309515	NM_010357	Trapped	No	No	No		1	Targeted (knock-out)	cellular, homeostasis/metabolism, immune system, reproductive system, skeleton
3	glutathione S-transferase, theta 2	<a href="#">gstt2</a>	Yes	MGI:106188	NM_010361	Trapped	No	No	No				
3	insulin-like growth factor binding protein 2	<a href="#">igfbp2</a>	Yes	MGI:96437	NM_008342	Trapped	Yes	No	No		1	Targeted (knock-out)	
3	matrix metalloproteinase 10	<a href="#">Mmp10</a>	Yes	MGI:97007	NM_019471	Targeted	Yes	No	No	Yes	1	Targeted (knock-out)	immune system, reproductive system, respiratory system, skin/coat/nails
3	patched homolog 2	<a href="#">ptch2</a>	Yes	MGI:1095405	NM_008958	Targeted	Yes	Yes	No				
3	peroxisome proliferator activator receptor delta	<a href="#">Ppard</a>	Yes	MGI:101884	U10375	Targeted	Yes	Yes	Yes		4	Targeted (knock-out), Targeted (Floxed/Frt)	adipose tissue, embryogenesis, growth/size, homeostasis/metabolism, immune system, lethality-embryonic/perinatal, liver/biliary system, nervous system, skin/coat/nails, tumorigenesis