



Appendix 2

MHC *H2* Haplotypes

Appendix 2

MHC H2 Haplotypes

Inbred Strains								
			C57BL/6NJ	005304	<i>b</i>	NH/KiPtJ	003091	<i>k</i>
129P1/ReJ	001137	<i>b</i>	C57BL/10J	000665	<i>b</i>	NOD/ShiLt	001289	<i>g7</i>
129P3/J	000690	<i>bc</i> **	C57BL/10ScNJ	003752	<i>b</i>	NOD/ShiLtJ	001976	<i>g7</i>
129P3/JEmsJ	002357	<i>b</i>	C57BL/10ScSnJ	000476	<i>b</i>	NON/ShiLtJ	002423	<i>nb1</i>
129P4/RrRkJ	001198	<i>b</i>	C57BL/10SnJ	000666	<i>b</i>	NOR/LtJ	002050	<i>g7</i>
129S1/SvImJ	002448	<i>b</i>	C57BL/10SxJ	001822	<i>b</i>	NU/J	002019	<i>q</i>
129T2/SvEms	002064	<i>b</i>	C57BL/10WtRkJ	001197	<i>b</i>	NZB/BINJ	000684	<i>d2</i> **
129T2/SvEmsJ	002065	<i>b</i>	C57BLKS/J	000662	<i>d</i>	NZL/LtJ	005067	<i>z</i>
129X1/SvJ	000691	<i>b</i>	C57BR/cdJ	000667	<i>k2</i> *	NZM391/J	003108	<i>z</i>
A/HeJ	000645	<i>a</i>	C57L/J	000668	<i>bc</i> ***	NZM2410/J	002676	<i>z</i>
A/J	000646	<i>a</i>	C58/J	000669	<i>k2</i> *	NZO/HILtJ	002105	<i>z</i>
A/WySnJ	000647	<i>a</i>	CBA/CaGnLeJ	001143	<i>k</i>	NZW/LacJ	001058	<i>z</i>
AKR/CumJ	002720	<i>k</i>	CBA/CaHN- <i>Btk^{kid}</i> /J	001011	<i>k</i>	NZW/Osu	003560	<i>z</i>
AKR/J	000648	<i>k</i>	CBA/CaJ	000654	<i>k</i>	P/J	000679	<i>p</i>
ALR/LtJ	003070	<i>gx</i>	CBA/J	000656	<i>k</i>	PL/J	000680	<i>u</i>
ALS/LtJ	003072	<i>nb1</i>	CD7/JlsJ	006178	unknown	PN/nBSwUmabJ	005052	<i>q</i>
AU/SsJ	000649	<i>q</i>	CD10/JlsJ	006180	unknown	PRO/1AReJ	000173	<i>b</i>
B6 x 1DH2/EiJ	002543	<i>b</i>	CE/J	000657	<i>k</i>	PRO/ReJ	000059	<i>b</i>
BALB/cBy	000650	<i>d</i>	DA/HuSnJ	000660	<i>qp</i>	RF/J	000682	<i>k</i>
BALB/cByJ	001026	<i>d</i>	DBA/1J	000670	<i>q</i>	RIII/DmMobJ	001088	<i>r</i>
BALB/cGaJ	001905	<i>d</i>	DBA/1LacJ	001140	<i>q</i>	RIIS/J	000683	<i>r</i>
BALB/cGrRkJ	000921	<i>d</i>	DBA/2BiJ	001907	<i>d</i>	SENCARA/PtJ	002746	<i>q</i>
BALB/cJ	000651	<i>d</i>	DBA/2DeJ	000052	<i>d</i>	SENCARB/PtJ	002747	<i>q</i>
BALB/cWtEiJ	001311	<i>d</i>	DBA/2HaSmnJ	000973	<i>d</i>	SENCARC/PtJ	002748	<i>q</i>
BDP/J	000652	<i>p</i>	DBA/2J	000671	<i>d</i>	SJL/Bm	001902	<i>s</i>
BPH/2J	003005	<i>d</i>	DBA/8BiDsmJ	002860	<i>q</i>	SJL/J	000686	<i>s2</i> *
BPL/1J	003006	<i>b</i>	DDY/EFrkJ	002814	unknown	SM/J	000687	<i>v</i>
BPN/3J	003004	<i>d</i>	DDY/JclSidSeyFrkJ	002243	<i>s</i>	SOD1/EiJ	001224	<i>k</i>
BRVR/WrDvJ	001891	<i>k</i>	EL/EFrkJ	002813	unknown	ST/bJ	000688	<i>k</i>
BTBR <i>T⁺ tf</i> /J	002282	<i>b</i>	EL/SuzSeyFrkJ	001956	<i>b</i>	SWR/Bm	001900	<i>q</i>
BUB/BnJ	000653	<i>q2</i> *	FVB/NJ	001800	<i>q</i>	SWR/J	000689	<i>q2</i> *
C3H/HeJ	000659	<i>k</i>	FVB/NMob	001491	<i>q</i>	WLC/MorJ	002600	unknown
C3H/HeJBirLtJ	005972	<i>k</i>	HTG/GoSfSnJ	000556	<i>g</i>	YBR/EiJ	000933	<i>d</i>
C3H/HeJSxJ	001824	<i>k</i>	I/LnJ	000674	<i>j</i>	Hybrids		
C3H/HeOuJ	000635	<i>k</i>	KK/HIJ	002106	<i>b</i>	B6129PF1/J	100492	<i>b/bc</i>
C3H/HeSn	000474	<i>k</i>	LDH2/EiJ	001266	<i>b</i>	B6129PF1/J- <i>A^{w/-}</i> /A ^w	100409	<i>b/bc</i>
C3H/HeSnJ	000661	<i>k</i>	LG/J	000675	<i>d</i>	B6129PF2/J	100903	<i>b/bc</i>
C3HeB/FeJ	000658	<i>k</i>	LLC.A/CkcJ	001200	unknown	B6129SF1/J	101043	<i>b</i>
C3HfB/BiJ	001908	<i>k</i>	LP/J	000676	<i>bc</i> **	B6129SF2/J	101045	<i>b</i>
C57BL/6By	000663	<i>b</i>	LT/SvEi	003588	<i>d</i>	B6AF1/J	100002	<i>b/a</i>
C57BL/6ByJ	001139	<i>b</i>	MA/MyJ	000677	<i>k</i>	B6C3F1/J	100010	<i>b/k</i>
C57BL/6J	000664	<i>b</i>	MEV-W/TyJ	001856	unknown	B6C3FeF1/J <i>a/a</i>	001022	<i>b/k</i>
C57BL/6JEiJ	000924	<i>b</i>	MRL/MpJ	000486	<i>k</i>	B6CBACaF1/J- <i>A^{w/-}</i> /A	001201	<i>b/k</i>

*Fischer Lindahl K 1997 and Shen FW 1982

**Fischer Lindahl K 1997

***Shen FW 1982

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B6CBAF1/J	100011	<i>b/k</i>	AKXL17/TyJ	000088	<i>b</i>	BXA24/PgnJ	001710	<i>b</i>
B6D2F1/J	100006	<i>b/d</i>	AKXL17A/TyJ	000748	<i>b</i>	BXA25/PgnJ	001711	<i>a</i>
B6EiC3SnF1/J	001875	<i>b/k</i>	AKXL21/TyJ	000782	<i>k</i>	BXA26/PgnJ	001999	<i>a</i>
B6EiD2F1/J	003550	<i>b/d</i>	AKXL24/TyJ	000046	<i>b</i>	BXD1/TyJ	000036	<i>d</i>
B6SJLF1/J	100012	<i>b/s</i>	AKXL29/TyJ	000042	<i>b</i>	BXD2/TyJ	000075	<i>b</i>
C3D2F1/J	100004	<i>k/d</i>	AKXL37/TyJ	000044	<i>b</i>	BXD5/TyJ	000037	<i>d</i>
C3FeB6F1/J	100016	<i>k/b</i>	AKXL38/TyJ	000328	<i>k</i>	BXD6/TyJ	000007	<i>d</i>
C3FeB6F1/J A/A ^{w-j}	001203	<i>k/b</i>	AKXL38A/TyJ	000747	unknown	BXD8/TyJ	000084	<i>b</i>
CAF1/J	100003	<i>d/a</i>	AKXL39/TyJ	003699	unknown	BXD9/TyJ	000105	<i>d</i>
CB6F1/J	100007	<i>d/b</i>	AKXL43/TyJ	003700	unknown	BXD11/TyJ	000012	<i>d</i>
CBYB6F1/J	100009	<i>d/b</i>	AKXL46/TyJ	003701	unknown	BXD12/TyJ	000045	<i>d</i>
CBYD2F1/J	100015	<i>d</i>	AXB1/PgnJ	001673	<i>a</i>	BXD13/TyJ	000040	<i>b</i>
CSJLF1/J	100019	<i>d/s</i>	AXB2/PgnJ	001674	<i>a</i>	BXD14/TyJ	000329	<i>b</i>
NZBWf1/J	100008	<i>d/z</i>	AXB4/PgnJ	001676	<i>b</i>	BXD15/TyJ	000095	<i>b</i>
PLSJLF1/J	100299	<i>u/s</i>	AXB5/PgnJ	001677	<i>a</i>	BXD16/TyJ	000013	<i>d</i>
Recombinant Inbred Strains			AXB6/PgnJ	001678	<i>b</i>	BXD18/TyJ	000015	<i>d</i>
58NXL8/TyJ	000564	unknown	AXB8/PgnJ	001679	<i>a</i>	BXD19/TyJ	000010	<i>b</i>
129XAE/SvJ	001258	unknown	AXB10/PgnJ	001681	<i>b</i>	BXD20/TyJ	000330	<i>b</i>
129XAM/SvJ	001263	unknown	AXB12/PgnJ	001683	<i>a</i>	BXD21/TyJ	000077	<i>d</i>
AKXD1/TyJ	001005	<i>k</i>	AXB13/PgnJ	001826	<i>b</i>	BXD22/TyJ	000043	<i>d</i>
AKXD2/TyJ	000776	<i>d</i>	AXB13a/PgnJ	001684	<i>b</i>	BXD23/TyJ	000098	<i>b</i>
AKXD3/TyJ	000959	<i>k</i>	AXB15/PgnJ	001685	<i>a</i>	BXD24a/TyJ	005243	<i>d</i>
AKXD6/TyJ	000777	<i>k</i>	AXB19/PgnJ	001687	<i>b</i>	BXD24b/TyJ	000031	<i>d</i>
AKXD9/TyJ	000763	<i>d</i>	AXB19a/PgnJ	001686	<i>b</i>	BXD25/TyJ RwwJ	006255	<i>d</i>
AKXD10/TyJ	001017	<i>k</i>	AXB19b/PgnJ	001688	<i>b</i>	BXD27/TyJ	000041	<i>d</i>
AKXD11/TyJ	001003	<i>k</i>	AXB23/PgnJ	001690	<i>b</i>	BXD28/TyJ	000047	<i>d</i>
AKXD13/TyJ	000765	<i>d</i>	AXB24/PgnJ	001691	<i>a</i>	BXD29/TyJ	000029	<i>b</i>
AKXD14/TyJ	000779	<i>d</i>	BRX58N1/TyJ	000753	unknown	BXD31/TyJ	000083	<i>d</i>
AKXD15/TyJ	000954	<i>k</i>	BRX58N7/TyJ	000752	unknown	BXD32/TyJ	000078	<i>d</i>
AKXD16/TyJ	000958	<i>d</i>	BRX58N8/TyJ	000698	unknown	BXD33/TyJ	003222	<i>d</i>
AKXD18/TyJ	001093	<i>d</i>	BRX58N9/TyJ	000756	unknown	BXD34/TyJ	003223	<i>d</i>
AKXD20/TyJ	001001	<i>d</i>	BRX58N11/TyJ	000750	unknown	BXD36/TyJ	003225	<i>d</i>
AKXD21/TyJ	001062	<i>k</i>	BRX58N13/TyJ	000749	unknown	BXD38/TyJ	003227	<i>d</i>
AKXD22/TyJ	000947	<i>d</i>	BXA1/PgnJ	001692	<i>b</i>	BXD39/TyJ	003228	<i>b</i>
AKXD23/TyJ	000780	<i>d</i>	BXA2/PgnJ	001693	<i>b</i>	BXD40/TyJ	003229	<i>d</i>
AKXD24/TyJ	000969	<i>d</i>	BXA4/PgnJ	001694	<i>a</i>	BXD42/TyJ	003230	<i>b</i>
AKXD25/TyJ	000949	<i>k</i>	BXA7/PgnJ	001696	<i>b</i>	BXH20/KccJ	003784	<i>b</i>
AKXD27/TyJ	000764	<i>k</i>	BXA8/PgnJ	001697	<i>a</i>	BXH22/KccJ	003786	<i>b</i>
AKXD28/TyJ	000957	<i>k</i>	BXA11/PgnJ	001699	<i>b</i>	BXH2/Ty1BedJ	002632	<i>k</i>
AKXL6/TyJ	000087	<i>k</i>	BXA12/PgnJ	001700	<i>a</i>	BXH2/TyJ	000034	<i>k</i>
AKXL6A/TyJ	000757	unknown	BXA13/PgnJ	001701	<i>b</i>	BXH4/TyJ	000011	<i>b</i>
AKXL13/TyJ	000089	<i>k</i>	BXA14/PgnJ	001702	<i>b</i>	BXH6/TyJ	000038	<i>k</i>
AKXL16A/TyJ	000404	unknown	BXA16/PgnJ	001703	<i>b</i>	BXH7/TyJ	000014	<i>k</i>
			BXA17/PgnJ	001704	<i>a</i>	BXH8/TyJ	000076	<i>b</i>

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BXH9/TyJ	000008	<i>b</i>	NXSMD/EiJ	001652	<i>d</i>	Recombinant Congenics		
BXH10/TyJ	000032	<i>b</i>	NXSME/EiJ	001653	<i>d</i>	B6cC3-1/KccJ	003787	<i>b</i>
BXH11/TyJ	000039	<i>b</i>	NXSME/EiJ	001654	<i>v</i>	CBcNO6/LtJ	002349	<i>k</i>
BXH14/TyJ	000009	<i>k</i>	NXSME/EiJ	001655	<i>v</i>	CBcNO7A/LtJ	003052	<i>k</i>
BXH19/TyJ	000033	<i>b</i>	NXSML/EiJ	001656	<i>v</i>	CBcNO7B/LtJ	003053	<i>k</i>
BJJ2/TyJ	000096	unknown	NXSME/EiJ	001657	<i>v</i>	CBcNO7C/LtJ	003054	<i>k</i>
BXSB/MpJ	000740	<i>b</i>	NXSMP/EiJ	001659	<i>d</i>	CBcNO7D/LtJ	003055	<i>k</i>
CX8B/EiJ	001568	unknown	NXSMP/EiJ	001660	<i>v</i>	NOcCB1/LtJ	002348	<i>g7</i>
CX8D/EiJ	001569	unknown	NXSMT1/EiJ	001661	<i>v</i>	NONcNZO1/Lt	003668	<i>nb1</i>
CX8G/EiJ	001566	unknown	NXSMT2/EiJ	001662	<i>d</i>	NONcNZO3/Lt	003670	<i>z</i>
CX8I1/EiJ	001570	unknown	NXSMT2/EiJ	001663	<i>v</i>	NONcNZO4/Lt	003671	<i>nb1</i>
CX8I2/EiJ	001571	unknown	NXSMT2/EiJ	001665	<i>d</i>	NONcNZO5/LtJ	004455	<i>z</i>
CX8M/EiJ	001550	unknown	NXSMT2/EiJ	001666	<i>v</i>	NONcNZO6/Lt	003673	<i>nb1</i>
CX8N/EiJ	001532	unknown	NXSMT2/EiJ	001667	<i>v</i>	NONcNZO8/Lt	003675	<i>z</i>
CXB1/ByJ	000351	<i>d</i>	SWXJ2/BmJ	001072	<i>s</i>	NONcNZO10/LtJ	004456	<i>nb1</i>
CXB2/ByJ	000352	<i>b</i>	SWXJ3/BmJ	001073	<i>s</i>			
CXB3/ByJ	000353	<i>b</i>	SWXJ4/BmJ	001074	<i>q</i>			
CXB4/ByJ	000354	<i>d</i>	SWXJ5/BmJ	001075	<i>q</i>			
CXB5/ByJ	000355	<i>b</i>	SWXJ6/BmJ	001076	<i>s</i>			
CXB6/ByJ	000356	<i>b</i>	SWXJ7/BmJ	001077	<i>q</i>			
CXB7/ByJ	000357	<i>b</i>	SWXJ8/BmJ	001078	<i>s</i>			
CXB8/HiAJ	001629	<i>b</i>	SWXJ9/BmJ	001079	<i>q</i>			
CXB9/HiAJ	001630	<i>K^b, D^d</i>	SWXJ10/BmJ	001080	<i>q</i>			
CXB10/HiAJ	001631	<i>b</i>	SWXJ11/BmJ	001081	<i>s</i>			
CXB11/HiAJ	001632	<i>b</i>	SWXJ12/BmJ	001082	<i>s</i>			
CXB12/HiAJ	001633	<i>d</i>	SWXJ13/BmJ	001083	<i>q</i>			
CXB13/HiAJ	001634	<i>b</i>	SWXJ14/BmJ	001084	<i>s</i>			
CXJ1/SlkJ	001577	<i>d</i>	SWXL4/TyJ	000074	<i>b</i>			
CXJ3/SlkJ	001578	<i>d</i>	SWXL12/TyJ	000332	unknown			
CXJ4/SlkJ	001579	<i>s</i>	SWXL15/TyJ	000334	<i>q</i>			
CXJ6/SlkJ	001580	<i>s</i>	SWXL16/TyJ	000335	<i>b</i>			
CXJ8/SlkJ	001581	<i>d</i>	SWXL17/TyJ	000336	<i>q</i>			
CXJ9/SlkJ	001582	<i>d</i>						
CXJ15/SlkJ	001583	<i>s</i>						
LTXBJ/NaJ	002109	unknown						
LTXBO/SvJ	000402	unknown						
LXB3/TyJ	000754	unknown						
LXPL/2TyJ	000303	unknown						
LXPL6/TyJ	000307	unknown						
NX129-1TyJ	001193	unknown						
NX129-10/TyJ	000948	unknown						
NX129-18/TyJ	001539	unknown						
NXSME/EiJ	001651	<i>d</i>						

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Consomics

129S1/SvImJ-Chr Y ^{C57BL/6J} /NaJ	005548	<i>b</i>
A/J-Chr Y ^{C57BL/6J} /NaJ	005546	<i>a</i>
BALB/cByJ-Chr Y ^{B6By} /J	001452	<i>d</i>
C3.SW/Lt-Chr Y ^{HeB} /J	002110	<i>b</i>
C3.SW/Lt-Chr Y ^{SW} /J	002111	<i>b</i>
C57BL/6J-Chr 1 ^{PWD/Ph} /ForeJ	005259	<i>b</i>
C57BL/6J-Chr 2 ^{PWD/Ph} /ForeJ	005995	<i>b</i>
C57BL/6J-Chr 3 ^{PWD/Ph} /ForeJ	005518	<i>b</i>
C57BL/6J-Chr 5 ^{PWD/Ph} /ForeJ	005260	<i>b</i>
C57BL/6J-Chr 6 ^{PWD/Ph} /ForeJ	005261	<i>b</i>
C57BL/6J-Chr 9 ^{PWD/Ph} /ForeJ	005262	<i>b</i>
C57BL/6J-Chr 11.1 ^{PWD/Ph} /ForeJ	005997	<i>b</i>
C57BL/6J-Chr 11.2 ^{PWD/Ph} /ForeJ	005998	<i>b</i>
C57BL/6J-Chr 12 ^{PWD/Ph} /ForeJ	005263	<i>b</i>
C57BL/6J-Chr 14 ^{PWD/Ph} /ForeJ	005264	<i>b</i>
C57BL/6J-Chr 15 ^{PWD/Ph} /ForeJ	005265	<i>b</i>
C57BL/6J-Chr 16 ^{PWD/Ph} /ForeJ	005266	<i>b</i>
C57BL/6J-Chr 17 ^{PWD/Ph} /ForeJ	005267	<i>b</i>
C57BL/6J-Chr 18 ^{PWD/Ph} /ForeJ	005268	<i>b</i>
C57BL/6J-Chr 19 ^{PWD/Ph} /ForeJ	005269	<i>b</i>
C57BL/6J-Chr X.1 ^{PWD/Ph} /ForeJ	005762	<i>b</i>
C57BL/6J-Chr X.3 ^{PWD/Ph} /ForeJ	006227	<i>b</i>
C57BL/6J-Chr Y ^{PWD/Ph} /ForeJ	005270	<i>b</i>
C57BL/6J-Chr 1 ^{A/J} /NaJ	004379	<i>b</i>
C57BL/6J-Chr 2 ^{A/J} /NaJ	004380	<i>b</i>
C57BL/6J-Chr 3 ^{A/J} /NaJ	004381	<i>b</i>
C57BL/6J-Chr 4 ^{A/J} /NaJ	004382	<i>b</i>
C57BL/6J-Chr 5 ^{A/J} /NaJ	004383	<i>b</i>
C57BL/6J-Chr 6 ^{A/J} /NaJ	004384	<i>b</i>
C57BL/6J-Chr 7 ^{A/J} /NaJ	004385	<i>b</i>
C57BL/6J-Chr 8 ^{A/J} /NaJ	004386	<i>b</i>
C57BL/6J-Chr 9 ^{A/J} /NaJ	004387	<i>b</i>
C57BL/6J-Chr 10 ^{A/J} /NaJ	004388	<i>b</i>
C57BL/6J-Chr 11 ^{A/J} /NaJ	004389	<i>b</i>
C57BL/6J-Chr 12 ^{A/J} /NaJ	004390	<i>b</i>
C57BL/6J-Chr 13 ^{A/J} /NaJ	004391	<i>b</i>
C57BL/6J-Chr 14 ^{A/J} /NaJ	004392	<i>b</i>
C57BL/6J-Chr 15 ^{A/J} /NaJ	004393	<i>b</i>
C57BL/6J-Chr 16 ^{A/J} /NaJ	004394	<i>b</i>
C57BL/6J-Chr 17 ^{A/J} /NaJ	004395	<i>a</i>
C57BL/6J-Chr 18 ^{A/J} /NaJ	004396	<i>b</i>
C57BL/6J-Chr 19 ^{A/J} /NaJ	004397	<i>b</i>
C57BL/6J-Chr X ^{A/J} /NaJ	004398	<i>b</i>

C57BL/6J-Chr Y ^{A/J} /NaJ	004399	<i>b</i>
C57BL/6J-Chr Y ^{129S1/SvImJ} /NaJ	005547	<i>b</i>
C57BL/6J-Chr 2 ^{C3H/HeJ} /J	006357	<i>b</i>
C57BL/6J-Chr 11 ^{C3H/HeJ} /J	006358	<i>b</i>

Conplastics

C57BL/6J-mt ^{A/J} /NaJ	005545	<i>b</i>
C57BL/6J-mt ^{PWD/Ph} /ForeJ	005761	<i>b</i>
NOD/ShiLt-mt ^{ALR/Lt} /MxLt	005332	<i>g7</i>

Appendix 2

MHC H2 Haplotypes

Allelic Designations for H2 Congenic Strains

			H2 Loci/Regions										
			Class Ia		Class II		Class III		Class Ia		Class Ib		
Haplotype	Stock #	Strain	K	Ab	Aa	Eb	Ea	S	D	L	Qa-2	T18	Qa-1
a	000469	B10.A-H2 ^a H2-T18 ^a /SgSnJ	k	k	k	k	k	d	d	d	a	a	a
ar1	001894	B10.LG-H2 ^{ar1} /J	d	#	#	#	#	#	#	#	#	#	#
	000440	C3.LG-H2 ^{ar1} /CkcCyJ	d	#	#	#	#	#	#	#	#	#	#
as1	001760	B10.S-H2 ^{as1} /(8R)/J	k	k	k	k/s	s	s	s	s	a	b	b
b	002090	AK.B6-H2 ^b /J	b	b	b	b	^	b	b	^	a	b	b
	001041	BKS.B6-H2 ^b /J	b	b	b	b	^	b	b	^	a	b	b
	001892	BRVR.B10-H2 ^b /J	b	b	b	b	^	b	b	^	a	b	b
	001952	C.B10-H2 ^b /LilMcdJ	b	b	b	b	^	b	b	^	a	b	b
	000435	D1.LP-H2 ^b H2-T18 ^{b?} /SnJ	b	b	b	b	^	b	b	^	a	b	b
	002591	NOD.B10Sn-H2 ^b /J	b	b	b	b	^	b	b	^	a	b	b
bc	000140	A.BY-H2 ^{bc} H2-T18 ^f /SnJ	b	b	b	b	^	b	b	^	a	f	b
	000438	C3.SW-H2 ^b /SnJ	b	b	b	b	^	b	b	^	a	f	b
bm1	000368	B6.C-H2 ^{bm1} /By	bm1	b	b	b	^	b	b	^	a	b	b
	001060	B6.C-H2 ^{bm1} /ByJ	bm1	b	b	b	^	b	b	^	a	b	b
bm2	000364	B6.C-H2 ^{bm2} /ByJ	bm2	b	b	b	^	b	b	^	a	b	b
bm3	001156	C57BL/6J-H2 ^{bm3} /EgJ	bm3	b	b	b	^	b	b	^	a	b	b
bm4	000369	B6.C-H2 ^{bm4} /ByJ	bm4	b	b	b	^	b	b	^	a	b	b
bm5	001157	C57BL/6Kh-H2 ^{bm5} /KhEgJ	bm5	b	b	b	^	b	b	^	a	b	b
bm7	001158	B6.C-H2 ^{bm7} /KhEgJ	bm7	b	b	b	^	b	b	^	a	b	b
bm10	001160	B6.C-H2 ^{bm10} /KhEgJ	bm10	b	b	b	^	b	b	^	a	b	b
bm11	001161	B6.C-H2 ^{bm11} /KhEgJ	bm11	b	b	b	^	b	b	^	a	b	b
bm12	001162	B6(C)-H2-Ab1 ^{bm12} /KhEgJ	b	bm12	b	b	^	b	b	^	a	b	b
bm14	000145	B6By(CBy)-H2-D1 ^{bm14} /(HZW42)ByJ	b	b	b	b	^	b	bm14	^	a	b	b
bp5	001823	B10.F-H2 ^{bp5} /(14R)J	b	b	b	b	^	p	p	p	b	#	#
bq1	001154	B10.MBR-H2 ^{bq1} /SxEgJ	b	k	k	k	k	k	q	q	a	a	a
d	000460	B10.D2-Hc ⁰ H2 ^d H2-T18 ^c /o2SnJ	d	d	d	d	d	d	d	d	a	c	b
	000462	B10.D2-H2 ^d /n2SnJ	d	d	d	d	d	d	d	d	a	d	b
	000461	B10.D2-Hc ⁰ H2 ^d H2-T18 ^c /oSnJ	d	d	d	d	d	d	d	d	a	c	b
	000463	B10.D2-Hc ¹ H2 ^d H2-T18 ^c /nSnJ	d	d	d	d	d	d	d	d	a	c	b
	001893	BRVR.D2-H2 ^d /J	d	d	d	d	d	d	d	d	a	d	b
	000359	B6.C-H2 ^d /bByJ	d	d	d	d	d	d	d	d	a	d	b
	000360	B6.C-H2 ^d Mdmg1 ^{BALB/cBy/aBy}	d	d	d	d	d	d	d	d	a	d	b
	000437	D1.C-H2 ^d H2-T18 ^c /SnJ	d	d	d	d	d	d	d	d	a	c	b
dm1	001164	B10.D2-H2 ^{dm1} /EgJ	d	d	d	d	d	d	dm1	dm1	#	#	#
dm2	001165	BALB/c-H2 ^{dm2} /KhEgJ	d	d	d	d	d	d	d	^	b	c	b
f	001068	B10.M-H2 ^f /nMobJ	f	f	f	f	f	f	f	f	b	d	b
	000459	B10.M-H2 ^f H2-T18 ^{a?} /SnJ	f	f	f	f	f	f	f	f	b	d	b
	000472	A.CA-H2 ^f H2-T18 ^a /SnJ	f	f	f	f	f	f	f	f	b	d	b
fm2	000739	B10.M-H2 ^{fm2} /MobJ	f	f	f	f	f	f	fm2	f	#	#	#
g	001012	B10.HTG-H2 ^g /2CyJ	d	d	d	d	d	d	b	^	a	b	b
	000443	C3.HTG-H2 ^g H2-T18 ^{b?} /SnJ	d	d	d	d	d	d	b	^	a	b	b

Appendix 2

MHC H2 Haplotypes

			H2 Loci/Regions										
			Class Ia		Class II		Class III		Class Ia		Class Ib		
Haplotype	Stock #	Strain	K	Ab	Aa	Eb	Ea	S	D	L	Qa-2	T18	Qa-1
g3	000999	B10.HTG-H2 ^a /3CyJ	d	d	d	d	d	d	b	^	a	b	b
	001151	B10.D2-H2 ^{g3} /(103R)EgJ	d	d	d	d	d	d	b	^	a	b	b
	001429	B6.C-H2 ^{g6} /J	d	d	d	d	d	d	b	#	#	#	#
g7	003300	B6.NOD-(D17Mit21-D17Mit10)/LtJ	d	g7	d	^	^	d	b	^	a	b	a
	001627	NON.NOD-H2 ^{g7} /LtJ	d	g7	d	^	^	d	b	^	a	b	a
h2	000468	B10.A-H2 ^{h2} /(2R)SgSnJ	k	k	k	k	k	d	b	^	a	b	b
h4	001150	B10.A-H2 ^{h4} /(4R)SgDvEgJ	k	k	k	k/b	b	b	b	^	a	b	b
i3	001149	B10.A-H2 ⁱ³ /(3R)SgDvEgJ	b	b	b	b/k	k	d	d	d	a	a	a
i5	000467	B10.A-H2 ⁱ⁵ H2-T18 ^a /(5R)SgSnJ	b	b	b	b/k	k	d	d	d	a	a	a
i7	001153	B10.D2-H2 ⁱ⁷ /(107R)EgJ	b	b	b	b	^	b	d	d	a	c	b
ia	001152	B10.D2-H2 ^{ia} /(106R)EgJ	b	b	b	b	^	b	dm1	dm1	a	c	b
j	000445	B10.WB-H2 ^j H2-T18 ^b /SnJ	j	j	j	j	j	j	b	b	a	b	b
	000441	C3.JK-H2 ^j H2-T18 ^b /SnJ	j	j	j	j	j	j	b	b	a	b	b
k	001148	B6.AK-H2 ^k /FlaEgJ	k	k	k	k	k	k	k	k	b	b	b
	001895	B6.AK-H2 ^k /J	k	k	k	k	k	k	k	k	b	b	b
	001951	C.C3-H2 ^k /LilMcdJ	k	k	k	k	k	k	k	k	b	b	b
k2	000465	B10.BR-H2 ^k H2-T18 ^a /SgSnJ	k	k	k	k	k	k	k	k	b	a	a
kp1	001825	B10.P-H2 ^{kp1} /(10R)SgJ	k	p	p	p	p	p	p	p	b	#	#
m	000466	B10.AKM-H2 ^m H2-T18 ^a /SnJ	k	k	k	k	k	k	q	q	a	a	a
nb1	001626	NOD.NON-H2 ^{nb1} /LtJ	b	nb1	nb1	k	k	#	b	#	#	#	#
o2	000473	C3H-H2 ^{o2} C4b ^b /SfSnJ	d	d	d	d	d	d	k	k	b	b	b
p	000439	C3.NB-H2 ^p H2-T18 ^c /SnJ	p	p	p	p	p	p	p	p	b	e	a
pa	000444	B10.Y-H2 ^{pa} H2-T18 ^c /SnJ	#	#	#	#	#	#	#	#	#	e	a
pb1	001818	B10.F-H2 ^{pb1} /(13R)J	p	p	p	p	p	b	b	^	a	b	b
q	002024	B10.D1-H2 ^q /SgJ	q	q	q	q	^	q	q	q	a	b	b
	002032	NOD.SW-H2 ^q /J	q	q	q	q	^	q	q	q	a	b	b
qp1	000464	B10.DA-H2 ^{qp1} H2-T18 ^b /(80NS)SnJ	q	q	q	q	q	q	s	s	a	b	b
	000436	D1.DA-H2 ^{qp1} /SnJ	q	q	q	q	q	q	s	s	a	b	b
r	001069	B10.RIII-H2 ^r /(71NS)nMobJ	r	r	r	r	r	r	r	r	b	b	b
	000457	B10.RIII-H2 ^r H2-T18 ^b /(71NS)SnJ	r	r	r	r	r	r	r	r	b	b	b
s	000434	LP.RIII-H2 ^r H2-T18 ^b /SnJ	r	r	r	r	r	r	r	r	b	b	b
	000471	A.SW-H2 ^s H2-T18 ^b /SnJ	s	s	s	s	^	s	s	s	a	b	b
	001953	B10.S-H2 ^s /SgMcdJ	s	s	s	s	^	s	s	s	a	b	b
sm1	001817	B10.S-H2 ^{sm1} /(12R)SgJ	s	s	s	s	s	s	s	#	#	#	#
t1	001067	A.TL-H2 ^{t1} /SfDvEgMobJ	s	k	k	k	k	k	d	d	a	c	b
t2	001066	A.TH-H2 ^{t2} /SfDvEgMobJ	s	s	s	s	s	s	d	d	a	a	a
t4	001650	B10.S-H2 ^{t4} (9R)/J	s	s	s	s/k	k	d	d	d	a	a	a
u	000458	B10.PL-H2 ^u H2-T18 ^a /(73NS)SnJ	u	u	u	u	u	u	d	d	a	a	a
v	000456	B10.SM H2 ^v H2-T18 ^b /(70NS)Sn-cw/J	v	v	v	v	v	v	v	v	a	b	b
y1	001954	B10.AQR-H2 ^{y1} /KljMcdJ	q	k	k	k	k	s	s	s	a	a	a
y2	001155	B10.T-H2 ^{y2} /(6R)SgDvEgJ	q	q	q	q	^	q	d	d	a	a	a
# unknown	^null												

Appendix 2

MHC H2 Haplotypes

Allelic Designations for H2 Complex for Inbred and Recombinant Strains

Haplotype	H2 Loci/Regions										
	Class Ia	Class II					Class Ia			Class Ib	
	K	Ab	Aa	Eb	Ea	S	D	L	Qa-2	T18	Qa-1
a	k	k	k	k	k	d	d	d	a	a	a
b	b	b	b	b	^	b	b	b [‡]	a	b	b
bc	b	b	b	b	^	b	b	b [‡]	a	f	b
d	d	d	d	d	d	d	d	d	a [@]	c	b
f	f	f	f	f	f	f	f	f	b	d	b
j	j	j	j	j	j	j	b	b	a	d	b
k	k	k	k	k	k	k	k	^	b	b	b
k2	k	k	k	k	k	k	k	k	b	a	a
g7	d	g7	d	^	^	d	b	^	a	b	a
gx	d	g7	g7	^	^	#	dx	#	#	#	#
m	k	k	k	k	k	k	q	q	a	a	a
nb1	b	nb1	nb1	k	k	#	b	#	#	#	#
p	p	p	p	p	p	p	p	p	b	e	a
q	q	q	q	q	q	q	q	q	a	b	b
q2	q	q	q	q	q	q	q	q	a	a	a
r	r	r	r	r	r	r	r	r	b	b	b
s	s	s	s	s	s	s	s	s	a	b	b
s2	s	s	s	s	s	s	s	s	a	a	a
u	u	u	u	u	u	u	d	d	a	a	a
v	v	v	v	v	v	v	v	v	a	b	b
z	u	u	u	u	u	z	z	z	b	b	b

unknown

^ null

* Additional strains that are Ea null: DBA/1J, DBA/1LacJ, SJL/J

‡ C57BL/6, C57BL/10 and substrains are null at L

@ BALB/cByJ mice are Qa-2 null

General References:

Genetic Variants and Strains of the Laboratory Mouse, 2nd ed. Lyon MF, Searle AG, (eds), Oxford University Press, New York. 1989.

Current Protocols in Immunology. Coligan JF, *et al*, (eds), John Wiley & Sons, Inc. New York. 2004. Supplement 17, A.1C1-A.1C2.

For changes to H2-k allele at L (from k to null):

Hood L, Steinmetz M, Malissen B. 1983. Genes of the major histocompatibility complex of the mouse. *Ann Rev Immunol* 1:529-568.

For changes to haplotype information for strains: 129P3/J, BUB/BnJ, C57BR/cdJ, C58/J, LP/J, NZB/BINJ, SJL/J, SWR/J, A.BY-H2^{bc} H2-T18^f/SnJ, C3.SW-H2^b/SnJ, and B10.Y-H2^{ps} H2-T18^c/SnJ and for change to H2-j allele at T18 (from b to d):

Lindahl KF. 1997. On naming H2 haplotypes: functional significance of MHC class Ib alleles. *Immunogenetics* 46:53-62.

For changes to haplotype information for strains BUB/BnJ, C57BR/cdJ, C57L/J, C58/J, SJL/J, SWR/J, and A.BY-H2^{bc} H2-T18^f/SnJ:

Shen F-W, Chorney MJ, Boyse EA. 1982. Further polymorphism of the Tla locus defined by monoclonal TL antibodies. *Immunogenetics* 15:573-78.

**Please refer to the JAX® Mice web site for updated information.