

Table B List of proteins mapped on mouse chromosomes to positions different from the known position of their structural genes

Proteins	Spot-No. ^a	Variation-No. ^b	Chromosome, position ^c
heat shock 70kD protein 8			Chr 9 - <i>Hspa8</i>
	C5_006	mV223BS	Chr 9 - <i>Hspa8</i>
	B1_028	mV90BS	Chr x - <i>Hspa8m1</i>
	B1_031	mV90BS	Chr x - <i>Hspa8m1</i>
	B2_045	mV313BS	Chr x - <i>Hspa8m2</i>
	B2_025	mV313BS	Chr x - <i>Hspa8m2</i>
	B3_001	non-variant	-
	B3_003	non-variant	-
B4_278	non-variant	-	
aconitase 2, mitochondrial			Chr 10 - <i>Aco2</i>
	A5_097	mV150BS	Chr 15 - <i>Aco2m1</i>
	A6_008	mV150BS	Chr 15 - <i>Aco2m1</i>
	B6_220	mV248BS	Chr 15 - <i>Aco2m1</i>
	A5_202	mV292BS	Chr 15 - <i>Aco2m1</i>
	B5_038	mV297BS	Chr 15 - <i>Aco2m2</i>
	B5_063	mV297BS	Chr 15 - <i>Aco2m2</i>
serum albumin variant			Chr 5 - <i>Alb1</i>
	A4_199	mV83BS	Chr 5 - <i>Alb1</i>
	C4_215	paV52BS	Chr 5 - <i>Alb1m1</i>
	C5_383	mV136BS	Chr 19 - <i>Alb1m2</i>
	C5_384	mV136BS	Chr 19 - <i>Alb1m2</i>
aldolase 3, C isoform			Chr 11 - <i>Aldo3</i>
	D6_120	mV159BS	Chr 11 - <i>Aldo3</i>
	B5_464	paV419BS	Chr 7 - <i>Aldo3m</i>
	B5_467	non-variant	-
	B5_490	non-variant	-
creatine kinase, brain			Chr 12 - <i>Ckb</i>
	C3_073	paV141BS	Chr 19 - <i>Ckbm</i>
	C3_456	paV141BS	Chr 19 - <i>Ckbm</i>
	C3_058	aV348BS	-
	B3_423	non-variant	-
	B4_354	non-variant	-
	C2_189	non-variant	-
	C3_052	non-variant	-
	C3_135	non-variant	-
	C3_141	non-variant	-

triosephosphate isomerase			Chr 6 - <i>Tpi</i>
	C6_357	mV195BS	Chr 6 - <i>Tpi</i>
	D3_152	aV19BS	Chr 18 - <i>Tpim</i>
	C5_250	non-variant	-
	C5_254	non-variant	-
	C5_264	non-variant	-
glutamate dehydrogenase			Chr 14 - <i>Glud</i>
	C4_345	paV105BS	Chr 2 - <i>Gludm1</i>
	B5_199	mV271BS	Chr 2 - <i>Gludm2</i>
	B5_176	non-variant	-
peroxisome proliferator activated receptor delta			Chr 17 - <i>Ppard</i>
	C5_088	aV268BS	Chr 16 - <i>Ppardm</i>
tubulin alpha 2			Chr 2 - <i>Tuba2</i>
	B4_228	paV153BS	Chr 3 - <i>Tuba2m</i>
tubulin, beta 4			Chr 17 - <i>Tubb4</i>
	B3_596	paV129BS	Chr 3 - <i>Tubb4m</i>
collapsin response mediator protein 1			Chr 5 - <i>Crmp1</i>
	B5_046	paV493BS	Chr 11 - <i>Crmp1m</i>
peroxiredoxin 5			Chr 1 - <i>Prdx5</i>
	C5_388	paV244BS	Chr 3 - <i>Prdx5m1</i>
	C4_224	aV51BS	Chr 19 - <i>Prdx5m2</i>
dihydropyrimidinase-like 4			Chr 7 - <i>Dpysl4</i>
	B5_065	paV507BS	Chr 11 - <i>Dpysl4m</i>
histone deacetylase 1			Chr 4 - <i>Hdac1</i>
	B3_502	paV133BS	Chr 8 - <i>Hdac1m</i>
uroporphyrinogen decarboxylase			Chr 4 - <i>Urod</i>
	B4_591	paV120BS	Chr 2 - <i>Urodm</i>
transaldolase 1			Chr 7 - <i>Taldo1</i>
	C6_392	mV221BS	Chr 13 - <i>Taldo1m</i>
sorcin			Chr 5 - <i>Sri</i>
	D3_008	mV19BS	Chr 4 - <i>Srim</i>
heat shock 70kD protein-like 1			Chr 17 - <i>Hspa1l</i>
	D4_156	mV6BS	Chr 9 - <i>Hspa1lm</i>

hemoglobin Y, beta-like embryonic chain			Chr 7 - <i>Hbb-y</i>
	E6_014	mV158BS	Chr 6 - <i>Hbb-ym</i>
histocompatibility 2, D region locus 1			Chr 17 - <i>H2-d1</i>
	A2_210	mV97BS	Chr 10 - <i>H2-d1m</i>
synapsin II			Chr 6 - <i>Syn2</i>
	B4_151	mV358BS	Chr 14 - <i>Syn2m</i>
actin, alpha, cardiac			Chr 2 - <i>Actc1</i>
	B5_301	mV267BS	Chr 15 - <i>Actc1m</i>
cytosolic acyl coA thioester hydrolase			(Chr 4 - <i>Hbach</i>) ^d
	B5_523	paV410BS	Chr 17 - <i>Hbachm-</i> <i>pending</i>
	B5_492	aV415BS	-
	B6_339	non-variant	-
hemoglobin alpha, adult chain 1			Chr 11 - <i>Hba-a1</i>
	E6_045	paV224BS	Chr 13 - <i>Hba-a1m</i>
	E7_015	non-variant	-
RAN, member RAS oncogene family			Chr 4 - <i>Ran</i>
	C5_236	paV257BS	Chr 15 - <i>Ranm</i>
	C5_229	non-variant	-
dynamamin			Chr 2 - <i>Dnm</i>
	B5_694	paV509BS	Chr 4 - <i>Dnmm</i>
	B4_503	non-variant	-
pyruvate kinase 3			Chr 9 - <i>Pk3</i>
	B5_692	paV495BS	Chr 11 - <i>Pk3m</i>
	B5_073	non-variant	-
	B5_092	non-variant	-
methylmalonate-semialdehyde dehydrogenase			Chr 12 - <i>Mmsdh</i>
	B5_167	paV463BS	Chr 12 - <i>Mmsdh</i>
	B5_172	paV486BS	Chr 12 - <i>Mmsdhm</i>
hemoglobin beta chain complex			Chr 7 - <i>Hbb</i>
	E7_009	mV174BS	Chr 3 - <i>Hbbm</i>
cathepsin H			Chr 9 - <i>Ctsh</i>
	C7_176	paV386BS	Chr 3 - <i>Mctshm</i>

tubulin, beta 5		Chr 17 - <i>Tubb5</i>
B2_151	aV174BS	Chr 12 - <i>Tubb5m</i>
B2_121	non-variant	-
B2_118	non-variant	-
glyceraldehyde 3-phosphate dehydrogenase		Chr 6 - <i>Gapd</i>
B5_611	mV145BS	Chr 6 - <i>Gapd</i>
B6_448	mV145BS	Chr 6 - <i>Gapd</i>
B6_442	mV145BS	Chr 6 - <i>Gapd</i>
B6_436	mV145BS	Chr 6 - <i>Gapd</i>
B5_660	mV143BS	Chr 6 - <i>Gapd</i>
B5_612	paV408BS	Chr 6 - <i>Gapdm1</i>
B6_476	paV425BS	Chr 6 - <i>Gapdm2</i>
enolase 2, gamma neuronal		Chr 6 - <i>Eno2</i>
B3_522	mV52BS	Chr 6 - <i>Eno2</i>
B2_423	mV54BS	Chr 6 - <i>Eno2</i>
B2_415	mV55BS	Chr 6 - <i>Eno2</i>
B3_359	mV73BS	Chr 6 - <i>Eno2</i>
C3_006	mV57BS	Chr 6 - <i>Eno2m1</i>
B2_309	mV364BS	Chr 6 - <i>Eno2m2</i>
C3_003	non-variant	-
glutathione S-transferase, mu 1		(Chr 3 - <i>Gstm1</i>) ^e
C6_217	mV139BS	Chr 3 - <i>Gstm1</i>
C6_224	mV215BS	Chr 3 - <i>Gstm1</i>
D4_125	mV9BS	Chr 3 - <i>Gstm1</i>
C5_243	mV210BS	Chr 3 - <i>Gstm1</i>
E4_015	mV12BS	Chr 3 - <i>Gstm1m1</i>
C6_058	paV299BS	Chr 3 - <i>Gstm1m2</i>
carbonic anhydrase 2		Chr 3 - <i>Car2</i>
C5_151	mV138BS	Chr 3 - <i>Car2</i>
A5_017	mV285BS	Chr 3 - <i>Car2</i>
C5_271	mV134BS	Chr 3 - <i>Car2m1</i>
D5_076	paV227BS	Chr 3 - <i>Car2m2-pending</i>
malic enzyme, supernatant		Chr 9 - <i>Mod1</i>
B5_021	mV296BS	Chr 9 - <i>Mod1</i>
C5_381	paV271BS	Chr 9 - <i>Mod1m</i>

carbonyl reductase 1			Chr 16 - <i>Cbr1</i>
	C6_072	mV142BS	Chr 16 - <i>Cbr1</i>
	C6_389	mV153BS	Chr 16 - <i>Cbr1</i>
	C5_379	mV154BS	Chr 16 - <i>Cbr1</i>
	C5_376	paV264BS	Chr 16 - <i>Cbr1m1</i>
	C6_391	paV385BS	Chr 16 - <i>Cbr1m2</i>
	C6_380	paV385BS	Chr 16 - <i>Cbr1m2</i>
catechol-O-methyltransferase			Chr 16 - <i>Comt</i>
	C3_459	paV47BS	Chr 16 - <i>Comtm</i>
	C3_258	paV48BS	Chr 16 - <i>Comtm</i>
acetyl-Coenzyme A dehydrogenase, long-chain			Chr 1 - <i>Acadl</i>
	B5_429	mV244BS	Chr 1 - <i>Acadlm</i>
prolyl 4-hydroxylase, beta polypeptide			Chr 11 - <i>P4hb</i>
	B2_464	mV130BS	Chr 11 - <i>P4hb</i>
	B2_458	mV130BS	Chr 11 - <i>P4hb</i>
	B2_146	mV86BS	Chr 11 - <i>P4hbm</i>
tissue specific transplantation antigen P35B			Chr 15 - <i>Tstap35b</i>
	B5_696	paV467BS	Chr 15 - <i>Tstap35bm</i>

41 proteins

113 protein spots

92 chromosomal positions

- ^a Spot numbers refer to the 2-DE standard pattern of mouse brain/supernatant proteins.
- ^b Variation-No.: Symbol of type of variation plus running number of polymorphic protein spots plus BS (brain supernatant fraction).
- ^c The mapping positions on the mouse chromosomes are shown in Fig. A. Loci of proteins which did not correspond with the known loci of the structural genes of these proteins were designed as modifiers (m).
- ^d The human locus for THCC is located on Chr 1 in the region *D1S214–D1S244* which is homologous to Chr 4 of the mouse.
- ^e The position mapped on Chr 3 of the mouse is homologous to *GSTM1* on HSA1p13.3.