

Human gene symbol	# of mutations in TCGA	Mouse gene symbol	Tumor 1	Tumor 2	Tumor 3
ZFHX4	20	Zfhx4	None	exon2:c.1011delA:p.P337fs	exon11:c.C9436A:p.Q3146K
DMD	18	Dmd	None	exon38:c.C5367A:p.N1789K	exon3:c.C103T:p.Q35X
PLEKHA4	9	Plekha4	exon8:c.C968T:p.T323M	None	exon7:c.G500A:p.R167H
PTCH1	7	Ptch1	exon23:c.C3800A:p.T1267N	None	exon6:c.884delC:p.P295fs
ZNF462	7	Zfp462	exon3:c.C860T:p.A287V	None	exon3:c.C595T:p.P199S
ATP4A	5	Atp4a	exon10:c.T1484C:p.I495T	exon13:c.C1989G:p.D663E	None
FOLH1	5	Folh1	exon19:c.G2246T:p.R749M	exon7:c.C861A:p.N287K	None

Supplementary Table 3. Mutation profiles observed in *BLG-Aurora-A* mouse mammary tumors and human breast tumors (TCGA), selected according to the schema shown in Supplementary Figure 1. Profiles show mutated exon: coding nucleotide change: protein amino acid change.