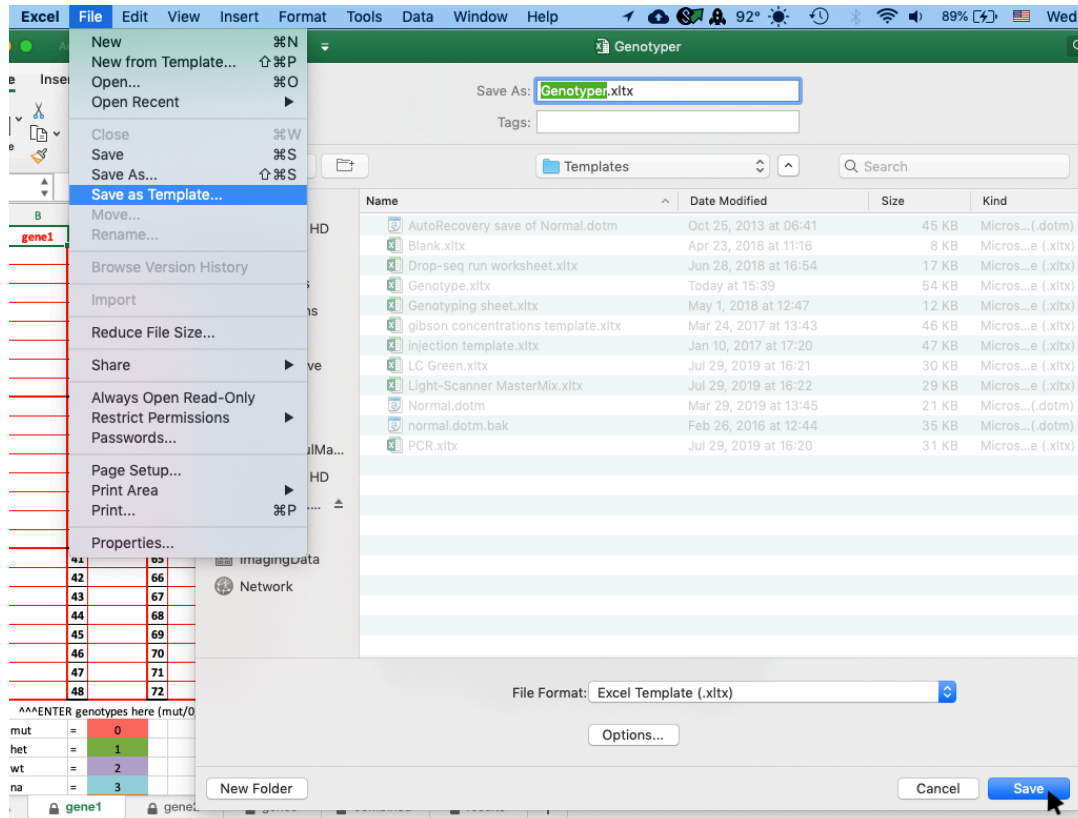


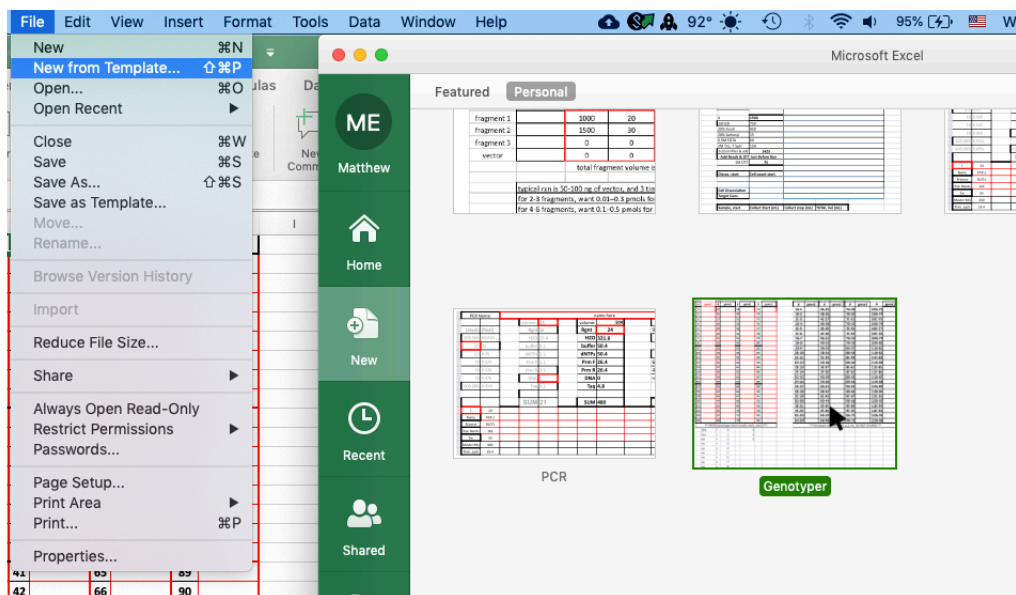
Using the Excel Genotyper

First time opening file on your computer:

Open the *Genotyper.xlsx* Excel file. Go to **File** in menu and click on **Save as Template...** In the resulting dialog box click **Save**.



Now you can open a fresh copy of the file every time you need one by going to **File** in the menu, clicking on **New from Template..** and finding the *Genotyper* file in the resulting window under **Personal** templates.



Using the Excel Genotyper

Entering genotypes:

Open a new *Genotyper* file with the **New from Template...** button. Begin entering the genotypes of your fish the **gene** tabs (**gene1-gene4**) in the table on the left side of the page. Enter 0 for mutants, 1 for heterozygotes, and 2 for homozygous wildtype genotypes. You can also enter m, h, and w if you prefer, but those inputs will be converted to 0, 1, and 2 in the table on the right side of the page. Below the table on the left, you can find the counts for each genotype for that particular page. You can enter the name of the gene at the top left of left table (the cell with red text) to keep track of what page is for what gene.

Well or tank number of fish.

Enter the name of the gene being genotyped on each gene tab in this cell (red text).

Enter genotypes in left side table:
0 = mutant
1 = heterozygous
2 = wildtype

Counts for the genotypes on each page tallied here.

Tabs for entering genotypes (gene1-gene4). Use a different tab for each gene, up to 4 genes.

#	etv4	#	etv4	#	etv4	#	etv4		#	etv4	#	etv4	#
1	0	25		49		73			1A-1	0	4A-25		7A-4
2	1	26		50		74			1B-2	1	4B-26		7B-5
3	2	27		51		75			1C-3	2	4C-27		7C-5
4	1	28		52		76			1D-4	1	4D-28		7D-5
5	2	29		53		77			1E-5	2	4E-29		7E-5
6	0	30		54		78			1F-6	0	4F-30		7F-5
7	1	31		55		79			1G-7	1	4G-31		7G-5
8		32		56		80			1H-8		4H-32		7H-5
9		33		57		81			2A-9		5A-33		8A-5
10		34		58		82			2B-10		5B-34		8B-5
11		35		59		83			2C-11		5C-35		8C-5
12		36		60		84			2D-12		5D-36		8D-6
13		37		61		85			2E-13		5E-37		8E-6
14		38		62		86			2F-14		5F-38		8F-6
15		39		63		87			2G-15		5G-39		8G-6
16		40		64		88			2H-16		5H-40		8H-6
17		41		65		89			3A-17		6A-41		9A-6
18		42		66		90			3B-18		6B-42		9B-6
19		43		67		91			3C-19		6C-43		9C-6
20		44		68		92			3D-20		6D-44		9D-6
21		45		69		93			3E-21		6E-45		9E-6
22		46		70		94			3F-22		6F-46		9F-7
23		47		71		95			3G-23		6G-47		9G-7
24		48		72		96			3H-24		6H-48		9H-7

Genotypes		Counts
mut	m	0
het	h	1
wt	w	2
		3
		0

gene1 gene2 gene3 gene4 combined results

Using the Excel Genotyper

Getting results of genotyping:

In the **combined** tab, you see the results of the entered genotypes with all genes combined together. Genotypes are combined in the order entered on the **Gene** tabs (ie "021" would be homozygous mutant for gene 1, wildtype for gene 2, and heterozygous for gene 3). Beneath the **desired genotypes** box, you can enter the genotypes you want to keep, up to 9 genotypes. Fish that match the desired genotypes are automatically highlighted. Additionally on the next **results** tab, the fish that match the desired genotypes are listed for quicker sorting and this page can be printed.

Enter desired genotypes here.

Number of fish for each genotype tallied here.

Matching wells are highlighted.

desired genotypes	count	#	etv4;etv5b	#	etv4;etv5b	#	etv4;etv5b	#	etv4;etv5b
00	9	1A-1	01	4A-25	10	7A-49	11	10A-73	01
01	10	1B-2	10	4B-26	01	7B-50	11	10B-74	12
10	13	1C-3	22	4C-27	21	7C-51	00	10C-75	10
		1D-4	11	4D-28	11	7D-52	11	10D-76	21
		1E-5	21	4E-29	12	7E-53	11	10E-77	01
		1F-6	00	4F-30	01	7F-54	20	10F-78	11
		1G-7	11	4G-31	10	7G-55	11	10G-79	20
		1H-8	02	4H-32	21	7H-56	00	10H-80	12

gene4 combined results +

Number of fish for each genotype tallied here.

Desired genotypes

Tank or well numbers are listed for each genotype.

N=	8	10	13	Genotype Locations			
	00	01	10				
1F-6	1A-1	1B-2					
3H-24	2C-11	2H-16					
7C-51	3F-22	3C-19					
7H-56	4B-26	4A-25					
9C-67	4F-30	4G-31					
9F-70	5A-33	5C-35					
11C-83	10A-73	5G-39					
12H-96	10E-77	6B-42					
	11G-87	6E-45					
	12E-93	8A-57					
		8G-63					
		10C-75					
		12A-89					

gene2 gene3 gene4 combined results +