

**a**

	HSC genotype	Ref#	Ref seq	Indels (bp)	Mutation
<i>Vdac2</i>	<i>Bak<sup>-/-</sup>Vdac2<sup>-/-</sup></i>	BV2.1	TGTATCCCTCCACCCTAT-GCTGACCTCGGCAAAGCTGCCAGAGA		
	<i>Bak<sup>-/-</sup>Vdac2<sup>-/-</sup></i>	BV2.3	TGTATCCCTCCACCCTAT- <b>GG</b> CTGACCTCGGCAAAGCTGCCAGAGA	+1	out-of-frame
	<i>Bak<sup>-/-</sup>Vdac2<sup>-/-</sup></i>	BV2.3	TGTATCCCTCCACCCT-----GACCTCGGCAAAGCTGCCAGAGA	-5	out-of-frame
			TGTATCCCTCCACCCTAT <b>CA</b> GCTGACCTCGGCAAAGCTGCCAGAGA	+2	out-of-frame
<i>Bak</i>			Ref seq		
	<i>Bak<sup>-/-</sup>Vdac2<sup>-/-</sup></i>	BV2.1	CTGGACAAGGACCAGGTCCCCCGAAGGTGGGCTGCGATGAGTCCCC		
	<i>Bak<sup>-/-</sup>Vdac2<sup>-/-</sup></i>	BV2.1	CTGGACAAGGACCAGGTC-----TGCGATGAGTCCCC	-14	out-of-frame
	<i>Bak<sup>-/-</sup>Vdac2<sup>-/-</sup></i>	BV2.3	CTGGACAAGGA-----TGAGTCCCC	-26	out-of-frame

**b**

primary MEFs

