

231MXRA8KO-O	100	CTGGGCCTGGGGCGCCGCTGTGGCTGGAGCCGTTGCCCGGAGAGCCCCggggggggCGGCT	159
MXRA8-201	1000	CTGGGCCTGGGGCGCCGCTGTGGCTGGAGCCGTTGCCCGGAGAGCCCCGGGGGGGCGGCT	941
231MXRA8KO-O	160	CCGCGTGGGGTTCGGCGACCGTCAGGTGGAAGACGCGGCGTTCGTGCAGGCCACAGTAAT	219
MXRA8-201	940	CCGCGTGGGGTTCGGCGACCGTCAGGTGGAAGACGCGGCGTTCGTGCAGGCCACAGTAAT	881
231MXRA8KO-O	220	GGTGGTGCAGGTGGCAGGAGTAGGTGCCC-----GGCTCGATACGCA	261
MXRA8-201	880	GGTGGTGCAGGTGGCAGGAGTAGGTGCCCTCGTCGGCGACCTCCAGCGGCTCGATACGCA	821
231MXRA8KO-O	262	GTGAGAAGTCACCGCGCTCAAAGGCATCCGCGCCACAGCCACGCGGTCGCGCAGAAAAA	321
MXRA8-201	820	GTGAGAAGTCACCGCGCTCAAAGGCATCCGCGCCACAGCCACGCGGTCGCGCAGAAAAA	761
231MXRA8KO-V	102	CTGGGCCTGGGGCGCCGCTGTGGCTGGAGCCGTTGCCCGGAGAGCCCCGG-----	161
MXRA8-201	1000	CTGGGCCTGGGGCGCCGCTGTGGCTGGAGCCGTTGCCCGGAGAGCCCCGGGGGGGCGGCT	941
231MXRA8KO-V	162	-----	221
MXRA8-201	940	CCGCGTGGGGTTCGGCGACCGTCAGGTGGAAGACGCGGCGTTCGTGCAGGCCACAGTAAT	881
231MXRA8KO-V	223	-----CGGCGACCTCCAGCGGCTCGATACGCA	263
MXRA8-201	880	GGTGGTGCAGGTGGCAGGAGTAGGTGCCCTCGTCGGCGACCTCCAGCGGCTCGATACGCA	821
231MXRA8KO-V	264	GTGAGAAGTCACCGCGCTCAAAGGCATCCGCGCCACAGCCACGCGGTCGCGCAGAAAAA	323
MXRA8-201	820	GTGAGAAGTCACCGCGCTCAAAGGCATCCGCGCCACAGCCACGCGGTCGCGCAGAAAAA	761

Figure S1. Sequencing results from 231MXRA8KO-O and 231MXRA8KO-V cells aligned to MXRA8-201 sequence

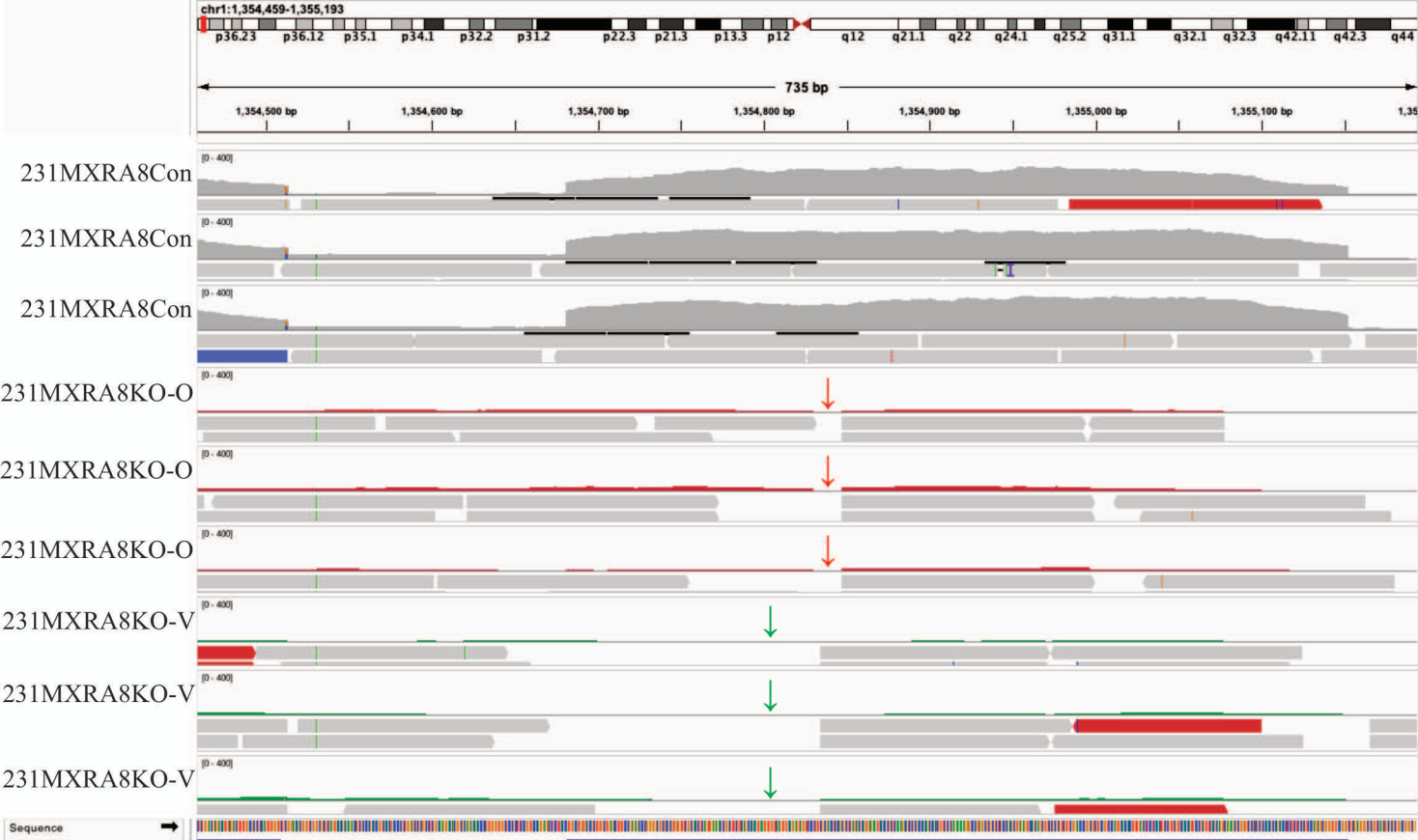


Figure S2. IGV image showing mapped reads from RNA sequencing data of 231MXRA8Con, 231MXRA8KO-O, and 231MXRA8KO-V cells grown in 2D culture. The red arrows indicate missing reads in 231MXRA8KO-O cells while the green arrows indicated missing reads in 231MXRA8KO-V cells.



Figure S3. Western blot showing Cas9 protein in MDA-231Cas9 cells compared to parental MDA-MB-231 cells