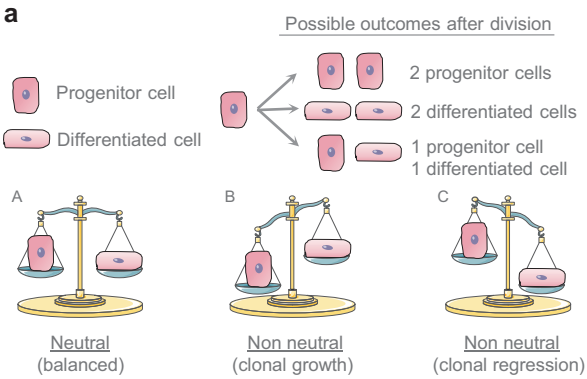
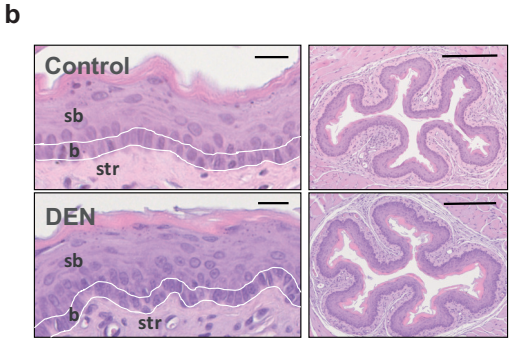
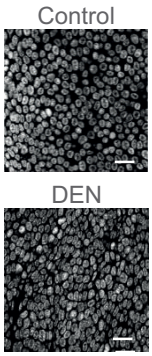
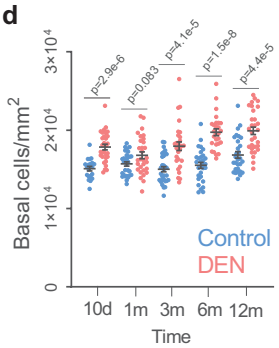
Extended Data 1









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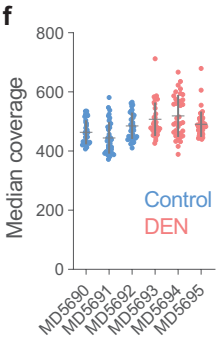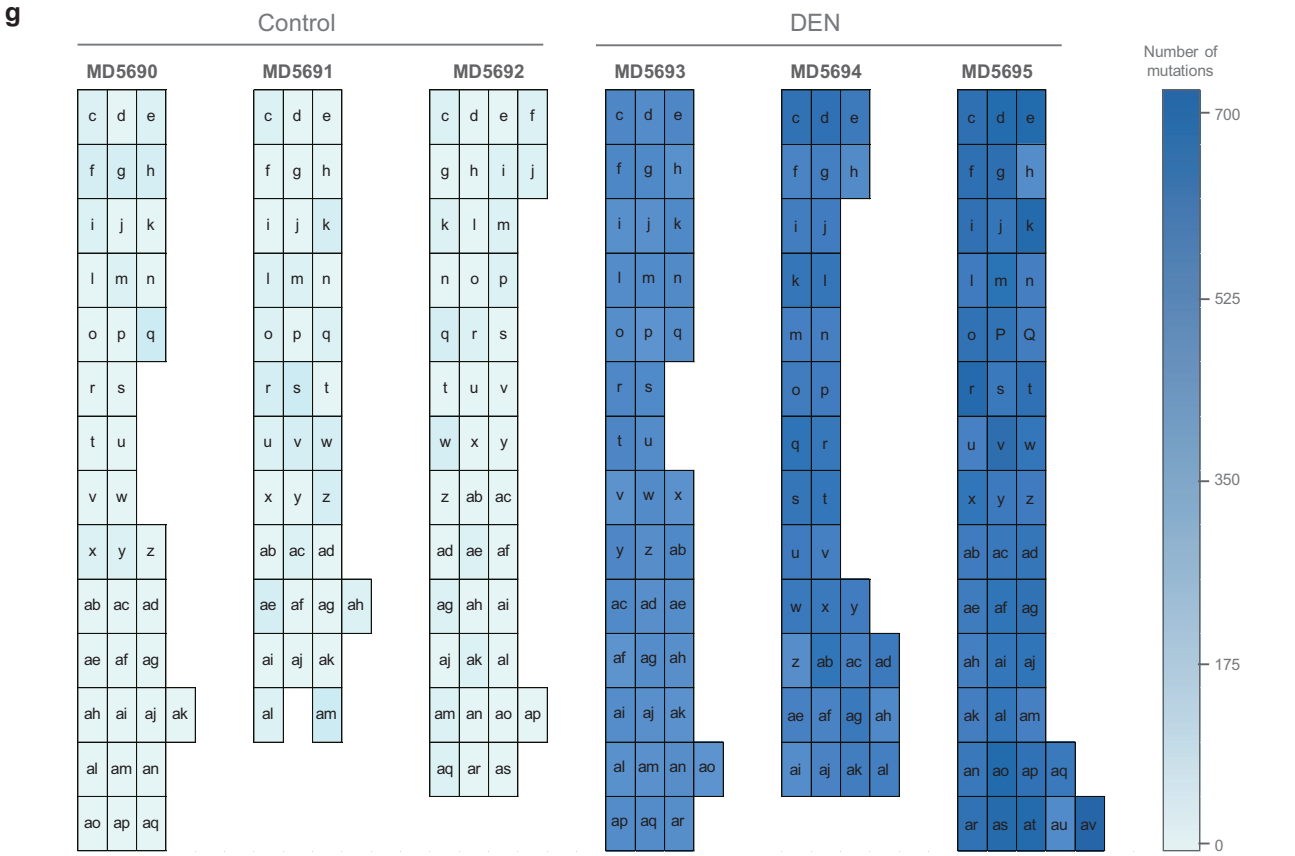
ABCB11	ABCC2	ADAM10	ADAM29	ADCY10	AFF3	AJUBA	AKAP9	AKT1	AKT2	APOB	ARID1A
ARID2	ARID5B	ASXL1	ATM	ATP2A2	ATRX	AURKA	B2M	BBS9	BCAS3	BCL11B	BCR
BRAF	BRCA2	C1S	CACNA1D	CARD11	CASP8	CCND1	CDC16	CDH1	CDKN2A	CHUK	CLGN
CNOT1	CNTNAP4	COBLL1	COL12A1	COPB2	CR2	CREBBP	CSMD2	CTCF	CUL3	CYLD	CYP2B13
DCLK1	DCLRE1A	DDR2	DICER1	DMXL2	DNM2	DNMT3A	DST	EGFR	EIF2D	EP300	EPHA2
ERBB2	ERBB3	ERBB4	EZH2	FAT1	FAT4	FBN2	FBXO21	FBXW7	FGFR1	FGFR2	FGFR3
FLG2	FLT3	FN1	GCN1L1	GRIN2A	GRM3	GTF3C5	HIST1H2BM	HMCN1	HRAS	HUWE1	HYDIN
IGSF1	INSRR	IQGAP1	IRF6	KCNH5	KDM5B	KDM6A	KDR	KEAP1	KIT	KLRC3	KMT2C
KMT2D	KRAS	KRT5	KRTAP4-9	LOXHD1	LRP1	LRP1B	LRP2	LTF	MAML1	MCM7	MET
MRGPRB4	MTOR	MYOF	NF1	NF2	NFE2L2	NFKB1	NLRP12	NOTCH1	NOTCH2	NOTCH3	NOTCH4
NRAS	NSD1	NUP214	OPN3	PARD3	PCDHA5	PCED1B	PDE4DIP	PEG10	PIGN	PIK3CA	PKHD1
PLCB1	PREX2	PSME4	PTCH1	PTEN	PTPRT	RAC1	RASA1	RB1	RBM46	RHBDF2	RIPK2
RIPK4	ROS1	RPGRIP1	RPL10	RYR2	SALL1	SCN10A	SCN11A	SCN1A	SCN3A	SETD2	SETX
SGK3	SIS	SLC13A1	SMAD4	SMARCA4	SMO	SNX25	SOAT2	SOX2	SPEN	ST18	SUFU
SYNM	TAF2	TAS2R102	TET2	TNR	TRP53	TRP63	TRRAP	TSC1	TTC27	USP24	USP26
USP9X	VHL	VMN2R81	VPS13B	WNK1	ZAN	ZFHX3	ZFP39	ZFP457	ZFP521	ZFP644	ZFP750