

Table S1. Summary of *sc^{M6}*, *Df(1)sc10-1* and *Df(1)ase-1* mutant genetic data

Gene	Cell type	Wild type				<i>sc^{M6}</i>				<i>Df(1)sc10-1</i>				<i>Df(1)ase-1</i>			
		No cells	One cell	Two cells	Three cells	No cells	One cell	Two cells	Three cells	No cells	One cell	Two cells	Three cells	No cells	One cell	Two cells	Three cells
<i>BarH1</i>	H-cell	0	50 (100)	0	0	0	80 (100)	0	0								
<i>DAT</i>	H-cell	0	50 (100)	0	0	0	96 (100)	0	0					0	24 (100)	0	0
<i>NPFR1</i>	H-cell	0	46 (100)	0	0	0	108 (100)	0	0	0	21 (100)	0	0				
<i>ple</i>	H-cell	0	92 (100)	0	0	6 (2)	292 (98)	0	0	0	21 (100)	0	0	0	23 (100)	0	0
<i>SoxN</i>	H-cell	0	50 (100)	0	0	0	64 (100)	0	0								
<i>tup</i>	H-cell	0	44 (100)	0	0	0	80 (100)	0	0								
<i>Vmat</i>	H-cell	0	34 (100)	0	0	6 (8)	68 (92)	0	0								
<i>Tbh</i>	mVUM	0	0	0	44 (100)					0	0	0	23 (100)	0	0	0	18 (100)
<i>wor</i>	MNB	0	42 (100)	0	0					0	22 (100)	0	0	0	20 (100)	0	0

Values represent the number of segments in which none, one, two or three cells expressed the gene. Percentages are indicated in parentheses. $P > 0.1737$.