

Figure	Panel	Statistical test	effects	statistic	p-value
Fig.1	b (D6-Test)	Two-way ANOVA (repeated measures)	No effect of group	F(1,15)=0.5361	0.4754
			No effect of time	F(1,15)=1.273	0.277
			No interaction	F(1,15)=2.96	0.1059
	c	Two-way ANOVA (repeated measures)	Significant effect of group	F(1,15)=5.233	0.0371
			Significant effect of zone	F(1,15)=11.66	0,0038
			Significant interaction	F(1,15)=7.732	0,0140
	d	Two-way ANOVA (repeated measures)	No effect of group	F(1,15)=2.762	0.1173
			Significant effect of zone	F(1,15)=12.60	0,0029
			Significant interaction	F(1,15)=7.145	0.0174
Fig.2	b	Unpaired t-test		t ₆ = 0.07	0.9451
	d	Unpaired t-test		t ₃ = 54,9	<0.0001
	g	Paired t-test		RP t ₃ =1.016	0.3845
				AP t ₃ =0.42	0.7029
	h	Paired t-test		RP t ₇ =3.22	0.0146
				AP t ₇ =3.51	0.0098
Fig.3	b (D6-Test)	Two-way ANOVA (repeated measures)	No effect of group	F(1,24)=3.566	0.0711
			Significant effect of time	F(1,24)=5.41	0.0228
			No interaction	F(1,24)=0.2604	0.6145
	c	Two-way ANOVA (repeated measures)	Significant effect of group	F(1,24)=8.374	0.0080
			Significant effect of zone	F(1,24)=10.26	0.0038
			Significant interaction	F(1,24)=6.9	0.0148
	d	Two-way ANOVA (repeated measures)	No effect of group	F(1,24)=1.922	0.1784
			Significant effect of zone	F(1,24)=4.458	0.0453
			Significant interaction	F(1,24)=4.326	0.0484
Fig.4	b (D6-Test)	Two-way ANOVA (repeated measures)	No effect of group	F(1,17)=0.017	0.8975
			Significant effect of time	F(1,17)=5.993	0.0262
			No interaction	F(1,17)=2.579	0.1267

	c	Two-way ANOVA (repeated measures)	No effect of group	F(1,17)=0.01755	0.8962
			Significant effect of zone	F(1,17)=14.63	0.0014
			No interaction	F(1,17)=2.155	0.1603
	d	Two-way ANOVA (repeated measures)	No effect of group	F(1,17)=0.7295	0.4049
			Significant effect of zone	F(1,17)=16.87	0.0007
			No interaction	F(1,17)=1.603	0.2225
Fig.5	b (D6-Test)	Two-way ANOVA (repeated measures)	No effect of group	F(1,23)=0.4212	0.5228
			No effect of time	F(1,23)=0.5339	0.4723
			No interaction	F(1,23)=0.3263	0.5734
	c	Two-way ANOVA (repeated measures)	No effect of group	F(1,23)=0.01688	0.8993
			Significant effect of zone	F(1,23)=4.902	0.037
			No interaction	F(1,23)=0.03532	0.8526
	d	Two-way ANOVA (repeated measures)	No effect of group	F(1,23)=0.0038	0.9511
			No effect of zone	F(1,23)=2.538	0.1248
			No interaction	F(1,23)=0.0817	0.777
Fig.6	c	Two-way ANOVA (repeated measures)	No effect of group	F(2,15)=0.1346	0.7188
			Significant effect of time	F(2,30)=29.12	<0.0001
			No interaction	F(2,30)=0.01494	0.9852
	d	Unpaired t-test		t ₁₅ = 2.298	0.0363

Table S1: Statistical analyses for each figure: From left to right : figure number, panel, statistical test used, effects analysed, F or t value for Anova or t test, value of probability (p) for significance.

<i>PCR primers</i>	Forward (5'-3')	TATATGGATCCATGACCTTGACAGTAACAGTA
	Reverse (5'-3')	TATATGGATCCCTACAAGGCCTGCTCCGGC
<i>Sequencing primers</i>	Forward 1 (5'-3')	CCTTCTCCCTCTCCAGCCT
	Forward 2 (5'-3')	CTATGGGCTCCTGCCATCTT

Table S2: PCR primers used to clone rM3D (G_s) into CAG-IRES-GFP and primers used to sequence the resulting construct CAG-G_s-IRES-GFP.