

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
	h	Paired t-test		$AP\ t_3=0.42$	0.7029
				$RP\ t_7=3.22$	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

	<b>c</b>	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
	<b>d</b>	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
<b>Fig.5</b>	<b>b</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
	<b>c</b>	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
	<b>d</b>	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
<b>Fig.6</b>	<b>c</b>	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
	<b>d</b>	Unpaired t-test		t <sub>15</sub> = 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')	TATATGGATCCATGACCTTGCACAGTAACAGTA
	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<sub>s</sub>) into CAG-IRES-GFP and primers used to sequence the resulting construct CAG-G<sub>s</sub>-IRES-GFP.