

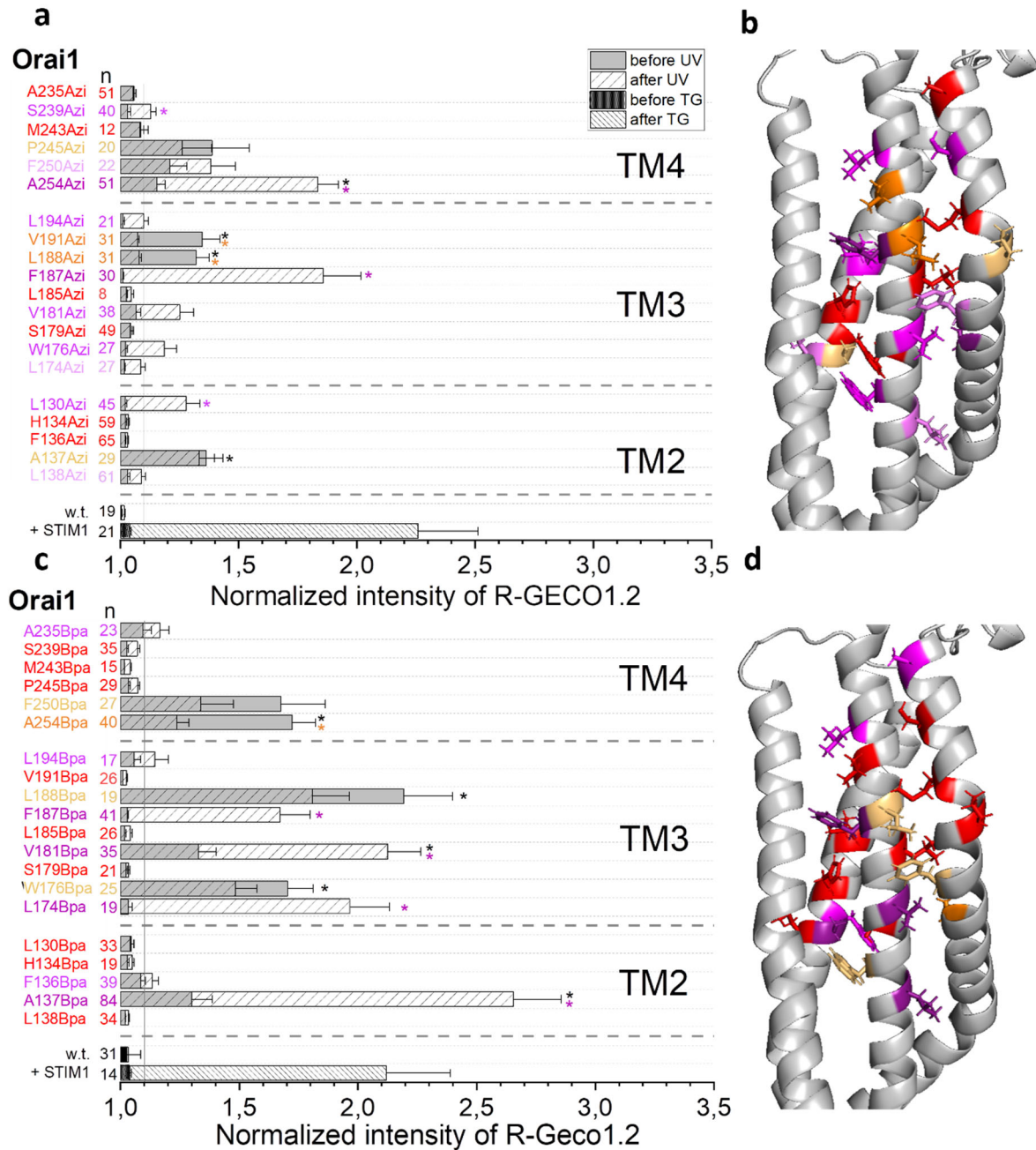
Supplementary Material

Photocrosslinking-induced CRAC channel-like Orai1 activation independent of STIM1

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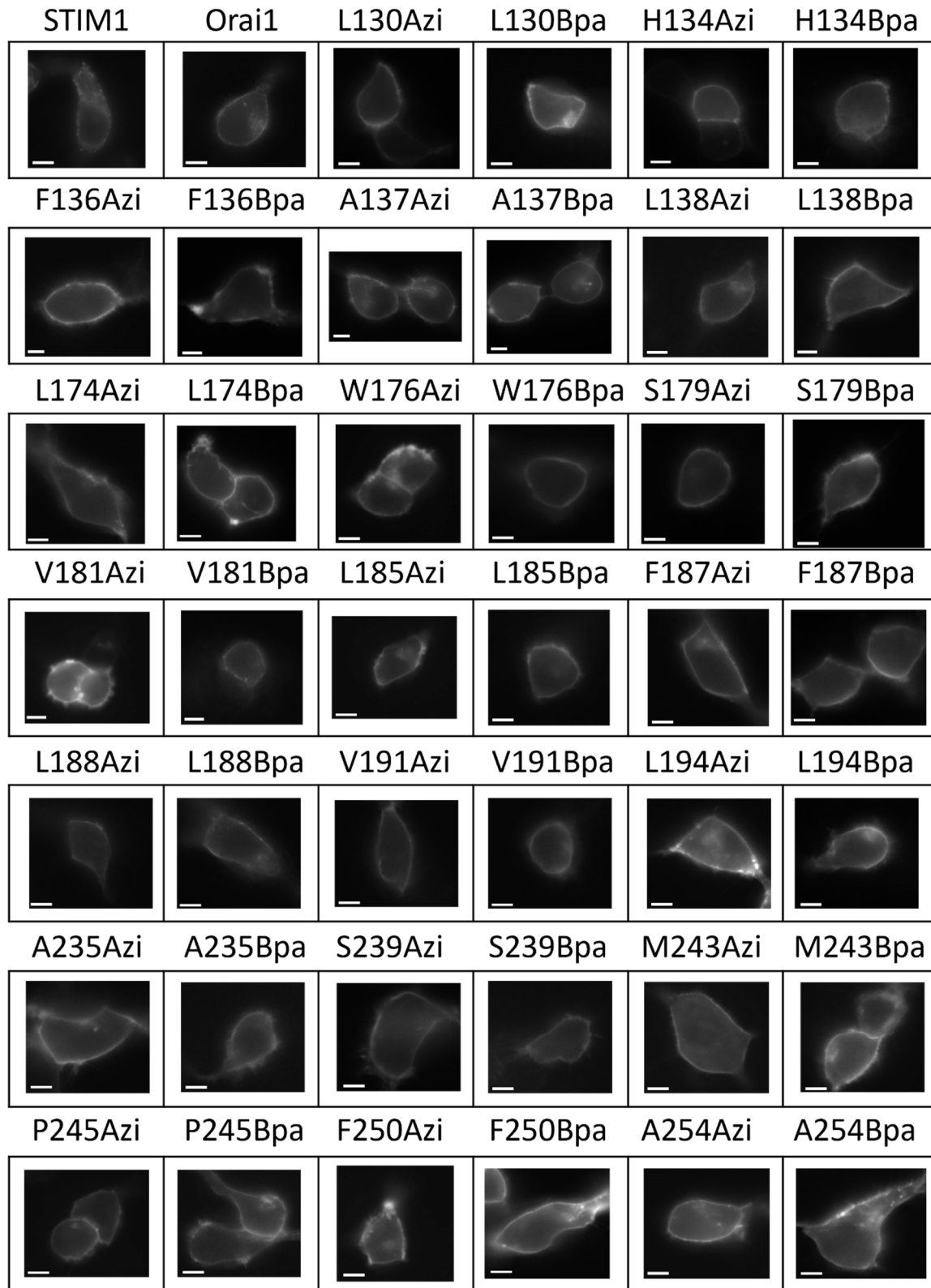
* These authors contributed equally

corresponding author

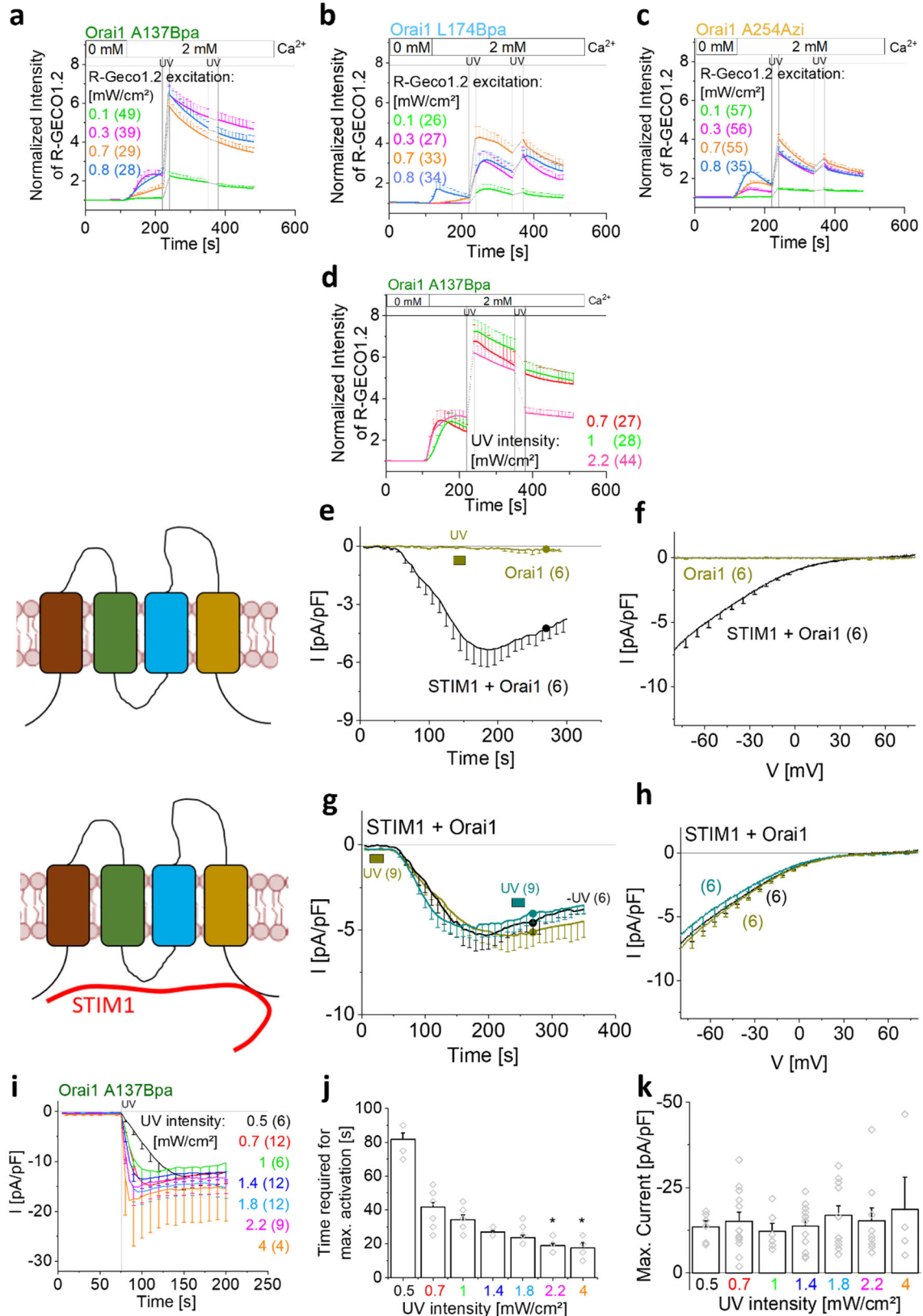


Supplementary Figure 1: **Incorporation of photocrosslinking UAAs at various positions in Orai1 is suitable to transfer light-sensitivity to the channel independent of STIM1.** **a) and c)** Bar diagram showing intracellular Ca^{2+} levels, represented by normalized intensities of R-GECO1.2, before (filled bars) and after (hatched bars) application of 10s UV light for all screened Orai1 mutants incorporating Azi (a) or Bpa (c) in either TM2, TM3 or TM4. In comparison, the effects of wild-type Orai1 exposed to UV light as well as STIM1/Orai1 activation upon application of thapsigargin (TG) are shown (Welch-ANOVA for (a) and (c): comparing normalized intensity in 0mM versus 2mM Ca^{2+} -containing solution: $F(41;371,32)=10,02$, $p=0$ (a); $F(41;368,33)=7,79$, $p=0$ (c); comparing normalized intensity before versus after UV: $F(43;371,88)=11,55$, $p=0$ (a); $F(43;372,45)=15,29$, $p=0$ (c)). For normalized intensity of R-GECO1.2, a threshold (grey) line was set at 1.1 which means that changes below this line, even if significant, are considered inactive. Results correspond to the

Table in **Figure 1. b) and d)** Scheme highlights the effect of UV light at different positions exchanging the endogenous amino acid with Azi (b) or Bpa (d). Color code is comparable to the bar diagram and Figure 1. Data represent mean values $\pm$ SEM of indicated number (*n*) of experiments. *(black) indicate significant difference ($p < 0,05$) of values obtained in 0mM compared to 2mM Ca^{2+} -containing solution before application of UV light (filled bars), while *(colored) indicate significant difference ($p < 0,05$) before (filled bars) compared to after (hatched bars) UV light application. Detailed statistic values are shown in **Supplementary Table 3**. Source data are provided as a Source Data file.

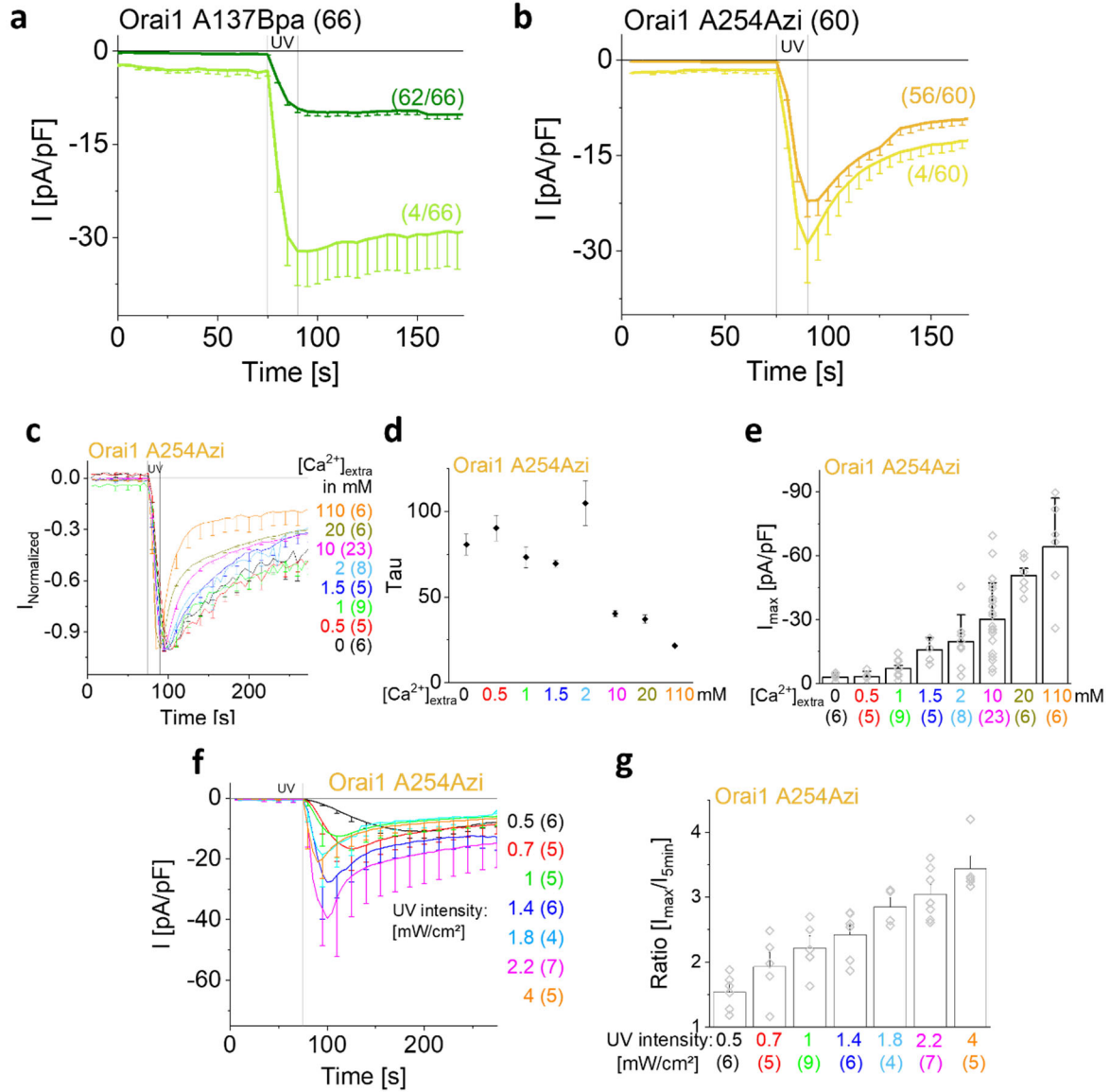


Supplementary Figure 2: **Insertion of UAAs retains plasma membrane localization of all tested UAA-containing Orai1 mutants.** Fluorescence images showing localization of overexpressed C-terminally labelled Orai1 UAA-containing mutants compared to wild-type Orai1 and STIM1. Positions used to mutate endogenous amino acids to UAAs (Azi and Bpa) are corresponding to Supplementary Figure 1. White bars indicate 5µm.

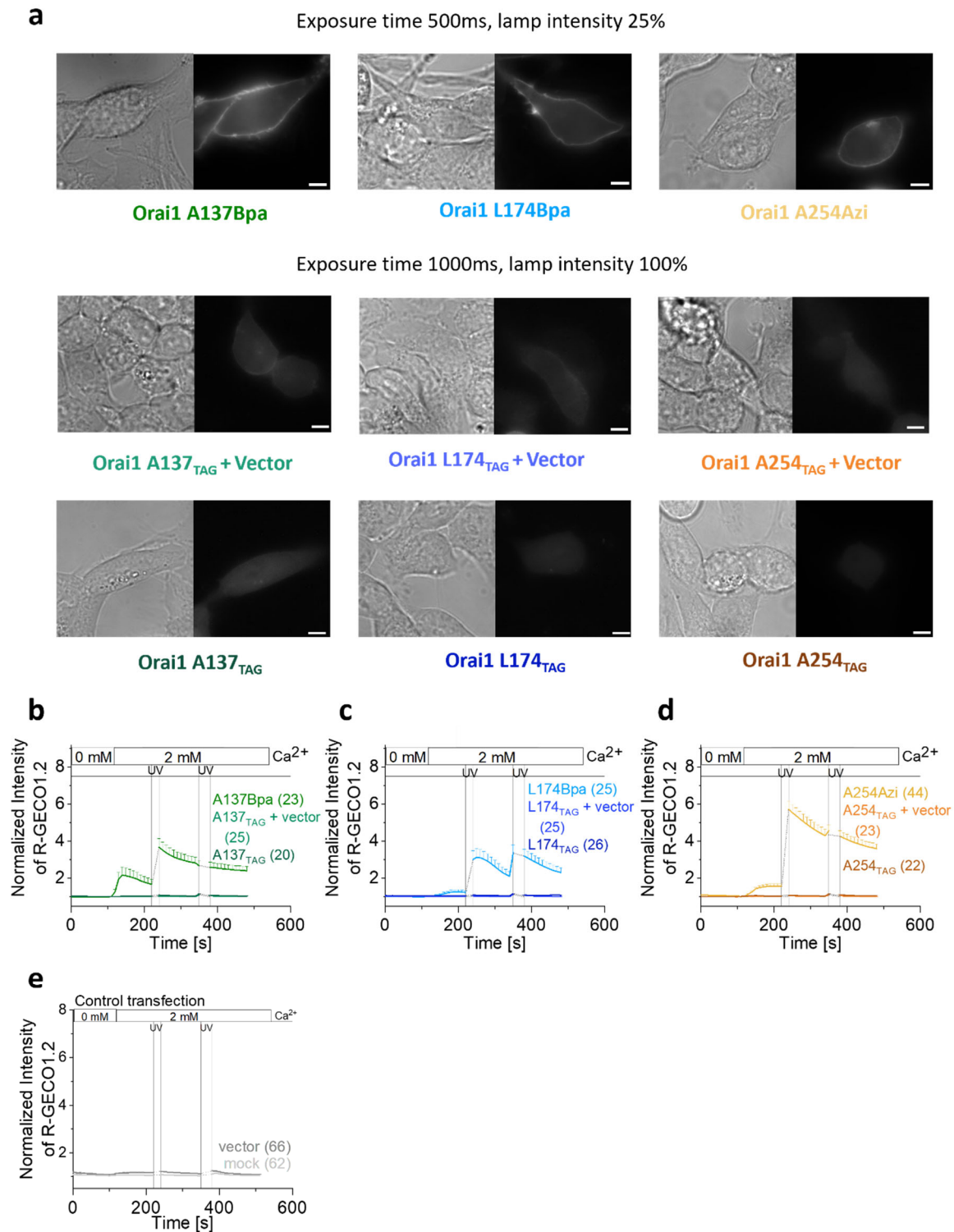


Supplementary Figure 3: **Intensities required to obtain maximum photocrosslinking-induced activation.** a)-c) Ca²⁺ imaging measurements of Orai1 A137Bpa (a), Orai1 L174Bpa (b) and Orai1 A254Azi (c) detected via R-GECO1.2 fluorescence with different intensity levels (0.1/0.3/0.7/0.8 mW/cm²) of the *LedHUB*®. Intracellular Ca²⁺ levels, represented by the

normalized intensity of R-GECO1.2 co-transfected with above mentioned UAA-containing Orai1 mutants in HEK293 cells, were monitored initially in 0mM Ca^{2+} solution followed by a 2mM Ca^{2+} solution. Under 2mM Ca^{2+} solution conditions, UV light was applied for 10s and 30s. Due to filter exchange, R-GECO1.2 intensity could not be recorded simultaneously with exposure to UV light. **d)** Ca^{2+} imaging measurements corresponding to a) detected via R-GECO1.2 fluorescence (0.3 mW/cm^2) while applying different UV light intensity levels ($0.7/1/2.2 \text{ mW/cm}^2$). Schemes with one Orai1 subunit in the absence or presence of STIM1 as used under one of the two conditions shown in **e)** and **g)** Time courses of current densities after whole-cell break-in of Orai1 or STIM1+Orai1 expressing cells. UV light was applied for 15s in (d) at $t = 140\text{s}$ or (f) either before ($t = 15\text{s}$) or after ($t = 240\text{s}$) passive store-depletion induced activation. **f)** and **h)** Corresponding I/V relationships were taken of current densities in (e) and (g) indicated by the respective circles. **i)** Time courses of current densities after whole-cell break-in of the light-sensitive Orai1 A137Bpa mutant varying the UV light intensity levels ($0.5/0.7/1/1.4/1.8/2.2/4$) of the *Lumencor Spectra III*. UV light was applied until maximum activation was achieved ($t = 20 - 80\text{s}$). **j)** and **k)** Corresponding bar diagram to (i) showing the time required for maximum activation at the different UV intensities ((j); Welch-ANOVA: $F(6;16,91)=40,40$, $p=3,85 \cdot 10^{-9}$) or maximum currents at the different UV intensities ((k), Welch-ANOVA: $F(6;18,35)=0,32$, $p=0,92$). Data represent mean values $\pm$ SEM of indicated number (n) of experiments. *Significant differences ($p < 0.05$). Detailed statistic values are shown in **Supplementary Figure 3**. Source data are provided as a Source Data file.

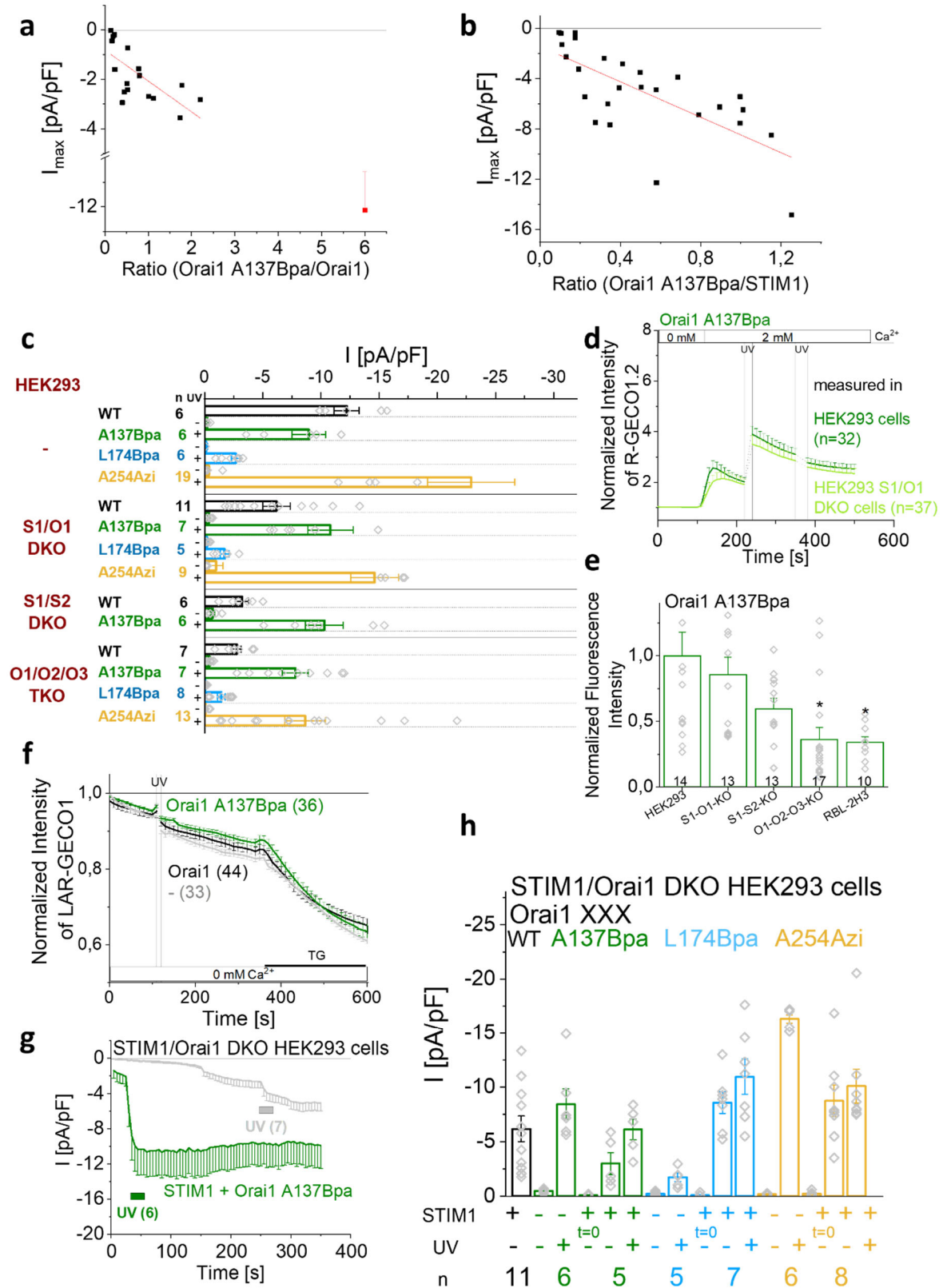


Supplementary Figure 4: **Constitutive activity of Orai1 A137Bpa and Orai1 A254Azi and slow inactivation of Orai1 A254Azi.** **a) and b)** Time courses of current densities after whole-cell break-in of the light-sensitive Orai1 A137Bpa (a) and Orai1 A254Azi (b). The numbers in parentheses indicate how many experiments (before the slash) from a pool of experiments (after the slash) are included in the mean. **(c)** Time courses of normalized current densities after whole-cell break-in of the light-sensitive Orai1 A254Azi mutant varying extracellular Ca^{2+} concentrations (0/0.5/1/1.5/2/10/20/110mM Ca^{2+}). **(d) and e)** Corresponding bar diagrams to (c) exhibiting τ for current decay after maximum activation (d) and maximum currents (e) at different extracellular Ca^{2+} concentrations (Welch-ANOVA: $F(7, 26.77)=13.32$, $p=2.65 \cdot 10^{-7}$). **(f)** Time courses of current densities after whole-cell break-in of the light-sensitive Orai1 A254Azi mutant varying the UV light intensity levels (0.5/0.7/1/1.4/1.8/2.2/4) of the Lumencor Spectra III. UV light was applied until maximum activation was achieved ($t = 20 - 80$ s). **(g)** Corresponding bar diagram to (f) exhibiting the increasing ratio of $I_{\max}/I_{\min}$ in dependence of enhancing UV light intensities (one-way ANOVA: $F(6, 37)=16.11$, $p<0.0001$). Data represent mean values $\pm$ SEM of indicated number (n) of experiments. Source data are provided as a Source Data file.



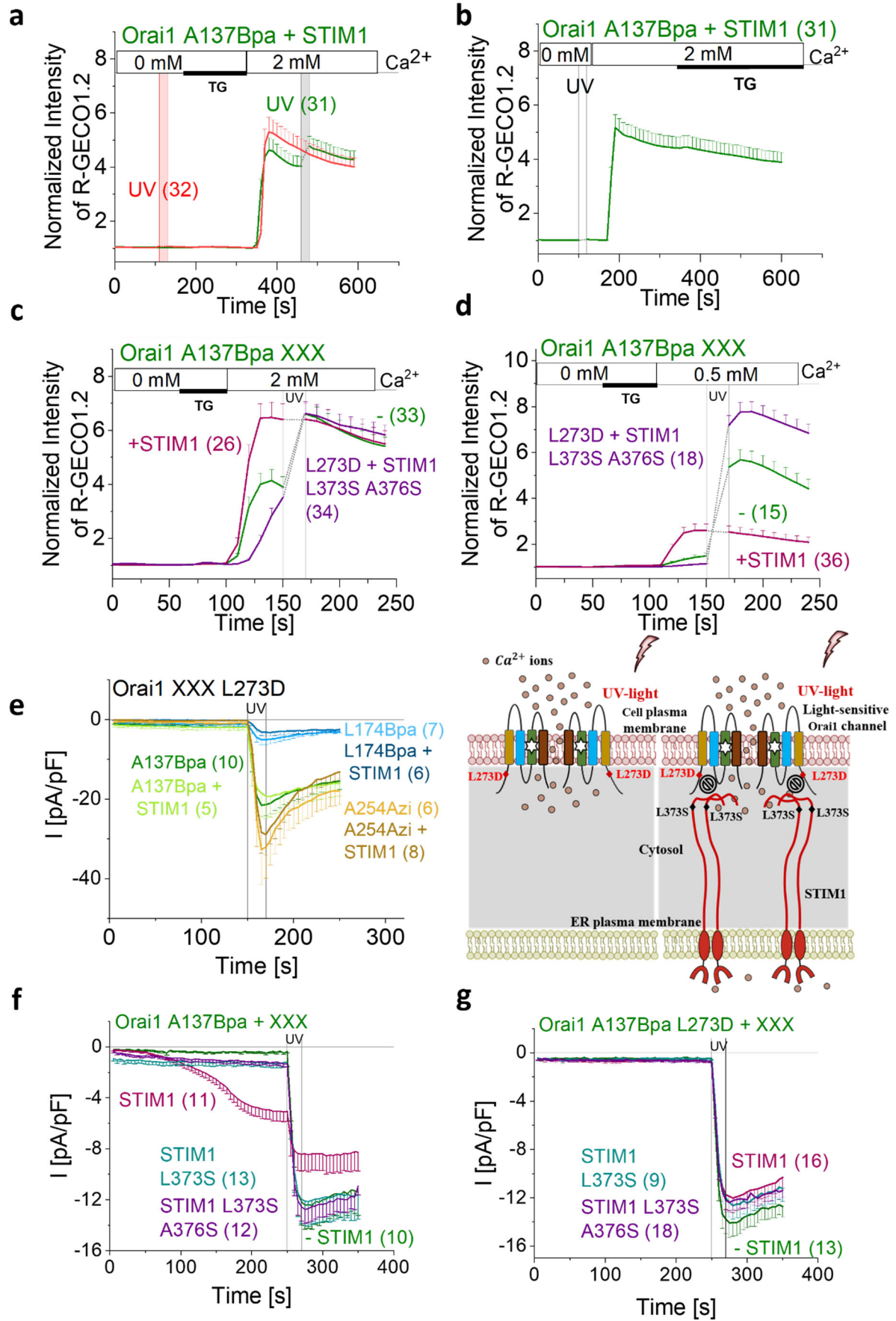
Supplementary Figure 5: **Intact plasma membrane expression and UV light-mediated activation is only obtained in the presence of the UAA and the respective tRNA/ aminoacyl synthetase pair.** **a)** Representative bright field and fluorescence images of Orai1 A137Bpa, Orai1 L174Bpa and Orai1 A254Azi while all components (UAA and tRNA/ aminoacyl synthetase pair) were available (upper panel; exposure time 500ms and 0.3 mW/cm² intensity of the *LedHUB*®), while the UAA was not supplemented (middle panel; exposure time 1000ms and 1.4 mW/cm² intensity of the *LedHUB*®) and while both, UAA and tRNA/ aminoacyl synthetase pair, were missing (lower panel, exposure time 1000 ms and 1.4 mW/cm² intensity

of the *LedHUB*®). White bars indicate 5µm. **b)-e)** Ca²⁺ imaging measurements of Orai1 A137Bpa (b), Orai1 L174Bpa (c), Orai1 A254Azi (d) expressing cells and mock transfected cells (only Bpa-vector) (e) using R-GECO1.2 under conditions mentioned in (a). Intracellular Ca²⁺ levels, represented by the normalized intensity of R-GECO1.2 co-transfected with above mentioned UAA-containing Orai1 mutants in HEK293 cells, were monitored initially in 0mM Ca²⁺ solution followed by a 2mM Ca²⁺ solution. Under 2mM Ca²⁺ solution conditions, UV light was applied for 10s and 30s. Due to filter exchange, R-GECO1.2 intensity could not be recorded simultaneously with exposure to UV light. Data represent mean values ± SEM of indicated number (*n*) of experiments. Source data are provided as a Source Data file.

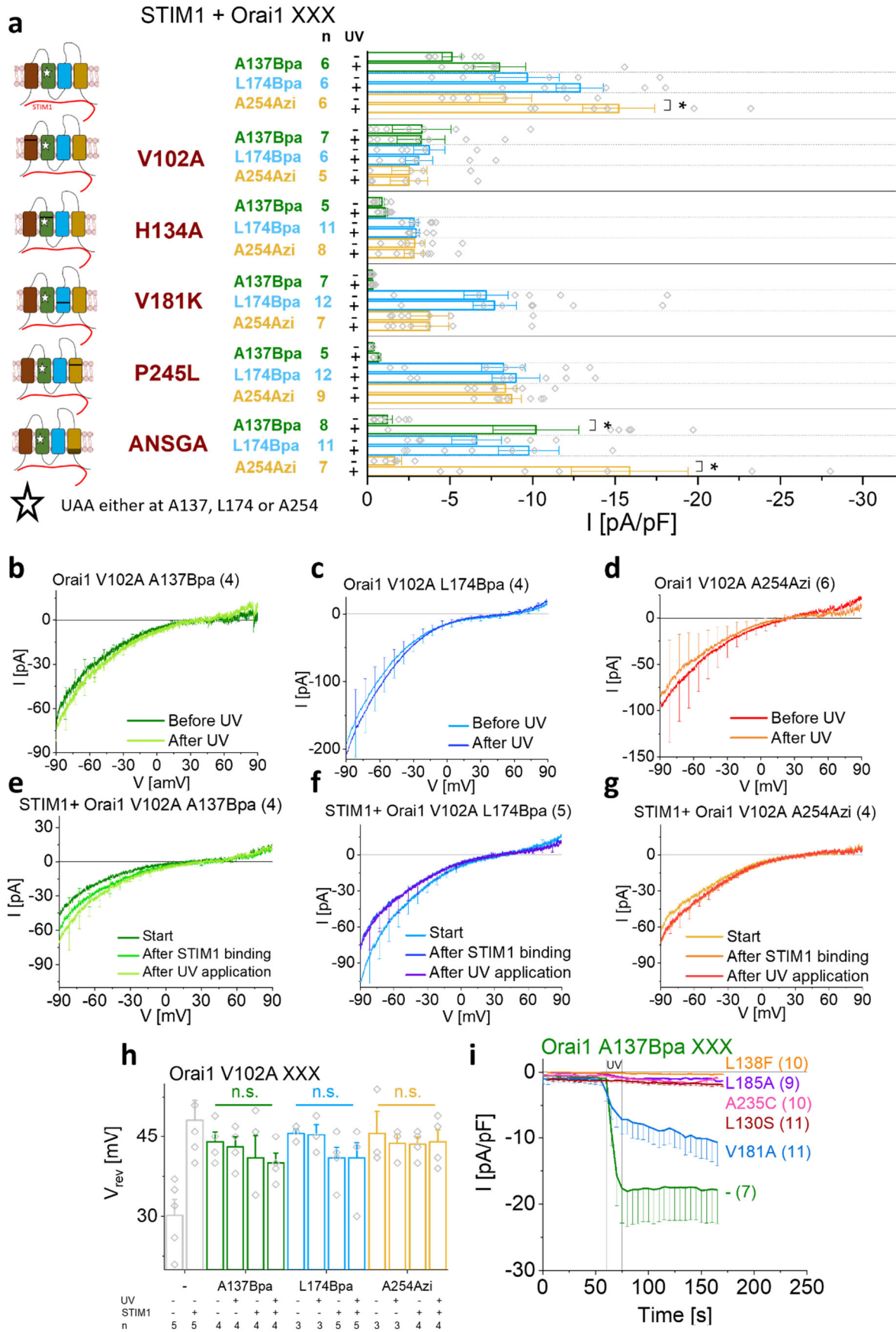


Supplementary Figure 6: **Maximum photocrosslinking-induced activation is reduced the higher the levels of co-expressed wild-type Orai1 or STIM1** a) b) Scatterplot of maximum currents of cells co-expressing different intensity ratios of Orai1 A137Bpa and wild-type Orai1 after 15s UV pulse (ratio Orai1 A137Bpa/Orai1; Regression line (red; $y = -0.82 \pm 0.32 - (1.25$

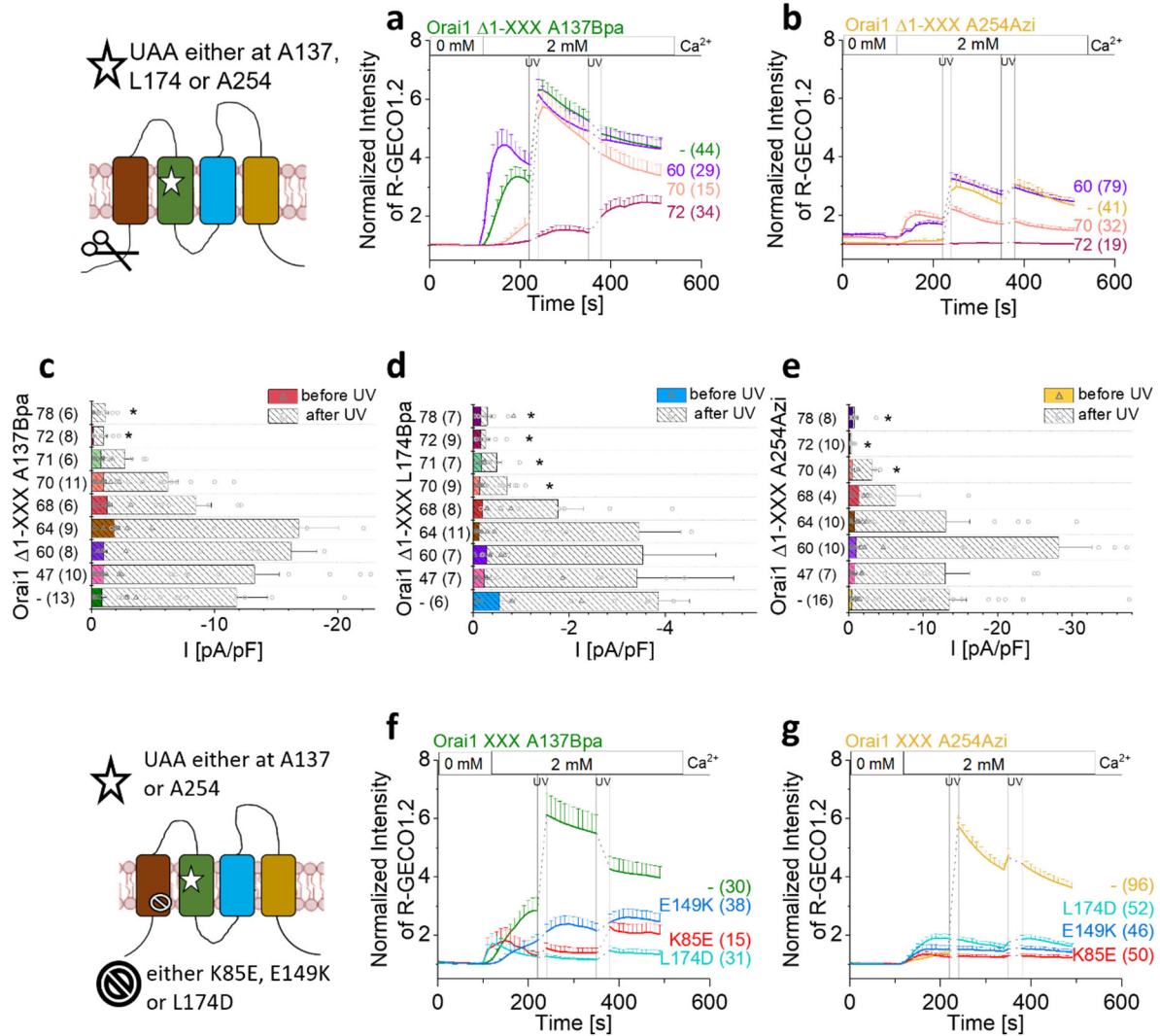
$\pm 0.34)x$) (a) or of STIM1 and Orai1 A137Bpa after store-depletion and subsequent 15s UV pulse (Regression line (red; $y = -1.42 \pm 0.88 - (7.05 \pm 1.42)x$) (b). In (a) for comparison, a mean value + SEM (red) is shown indicating UV-mediated currents of Orai1 A137Bpa ($n = 11$). **c)** Bar diagram showing maximum currents of Orai1 A137Bpa, Orai1 L174Bpa, Orai1 A254Azi and Orai1+STIM1 (WT) expressed in normal, STIM1/Orai1 DKO, STIM1/STIM2 DKO and Orai1/Orai2/Orai3 TKO HEK 293 cells, before and after 15s UV pulse (except Orai1+STIM1). **d)** Time course of intracellular Ca^{2+} levels of Orai1 A137Bpa in normal compared to STIM1/Orai1 DKO HEK293 cells represented by the normalized intensity of R-GECO1.2 initially in 0mM followed by a 2mM Ca^{2+} solution. Under 2mM Ca^{2+} solution conditions, UV light was applied for 10s and 30s. **e)** Normalized fluorescence intensities of Orai1 A137Bpa-YFP in HEK293 cell lines mentioned in (c) and the RBL-2H3 cell line (Welch-ANOVA: $F(4;29,94)=6,93$, $p=4,47 \cdot 10^{-4}$). **f)** Time course of ER- Ca^{2+} levels in Orai1 A137Bpa- and Orai1-expressing cells monitored by the normalized intensity of LAR-GECO1 in 0mM Ca^{2+} solution followed by a UV pulse (10s) and TG application. **g)** Time courses of current densities after whole-cell break-in of the light-sensitive Orai1 A137Bpa mutant co-expressed with STIM1 in STIM1/Orai1 DKO HEK293 cells. UV light was applied for 15s as indicated by the bars. **h)** Bar diagram showing maximum currents of Orai1 A137Bpa, Orai1 L174Bpa and Orai1 A254Azi expressed in the STIM1/Orai1 DKO HEK293 cells, without and with STIM1 before and after UV light (15s) (Welch-ANOVA: $F(15;31,96)=111,47$, $p=0$). Single data are indicated in grey. Data represent mean values $\pm$ SEM of indicated number (n) of experiments. *Significant differences ($p < 0.05$). Detailed statistic values are shown in **Supplementary Figure 3**. Source data are provided as a Source Data file.



Supplementary Figure 7: **UV-mediated activation of Orai1 A137Bpa is sufficient to reach maximum activation of Orai1 A137Bpa.** a) Ca^{2+} imaging measurements of Orai1 A137Bpa co-expressed with STIM1 using R-GECO1.2. Intracellular Ca^{2+} levels, represented by the normalized intensity of R-GECO1.2 of the above mentioned Orai1/STIM1 mutants in HEK293 cells, were monitored initially in 0mM Ca^{2+} solution followed by treatment with 1 μM TG and perfusion of a 2mM Ca^{2+} solution. UV light is applied for 10s under 0mM Ca^{2+} conditions either before the application of TG or under 2mM Ca^{2+} solution conditions after application of TG. Due to filter exchange, R-GECO1.2 intensity could not be recorded simultaneously with exposure to UV light. b) Corresponding measurement to (a) while exposure to UV light occurs under 0mM Ca^{2+} solution conditions and application of TG is performed after UV-mediated increase in the Ca^{2+} current under 2mM Ca^{2+} solution condition ($t = 375\text{s}$). c) Corresponding measurements to (a) comparing Orai1 A137Bpa, Orai1 A137Bpa co-expressed with STIM1 and Orai1 A137Bpa L273D co-expressed with STIM1 L373S A376S. UV light is applied for 10s under 2mM Ca^{2+} solution conditions. Due to filter exchange, R-GECO1.2 intensity could not be recorded simultaneously with exposure to UV light. d) Corresponding measurements to (c) while using a 0.5mM Ca^{2+} solution instead of the usual 2mM Ca^{2+} solution. e) Time courses of current densities after whole-cell break-in of the light-sensitive Orai1 mutants (Orai1 A137Bpa, Orai1 L174Bpa and A254Azi) combined with the L273D mutation in the presence and absence of STIM1. UV light is applied for 15s. Illustration on the right-hand side highlights that the STIM1 and Orai1 mutations inhibiting their coupling, did not affect photocrosslinking-induced Orai1 activation. f) and g) Time courses of current densities after whole-cell break-in of the light-sensitive Orai1 A137Bpa (b) and Orai1 A137Bpa L273D (c) mutants co-expressed with STIM1, STIM1 L373S and STIM1 L373S A376S. UV light is applied for 15s. Data represent mean values $\pm$ SEM of indicated number (n) of experiments. Source data are provided as a Source Data file.

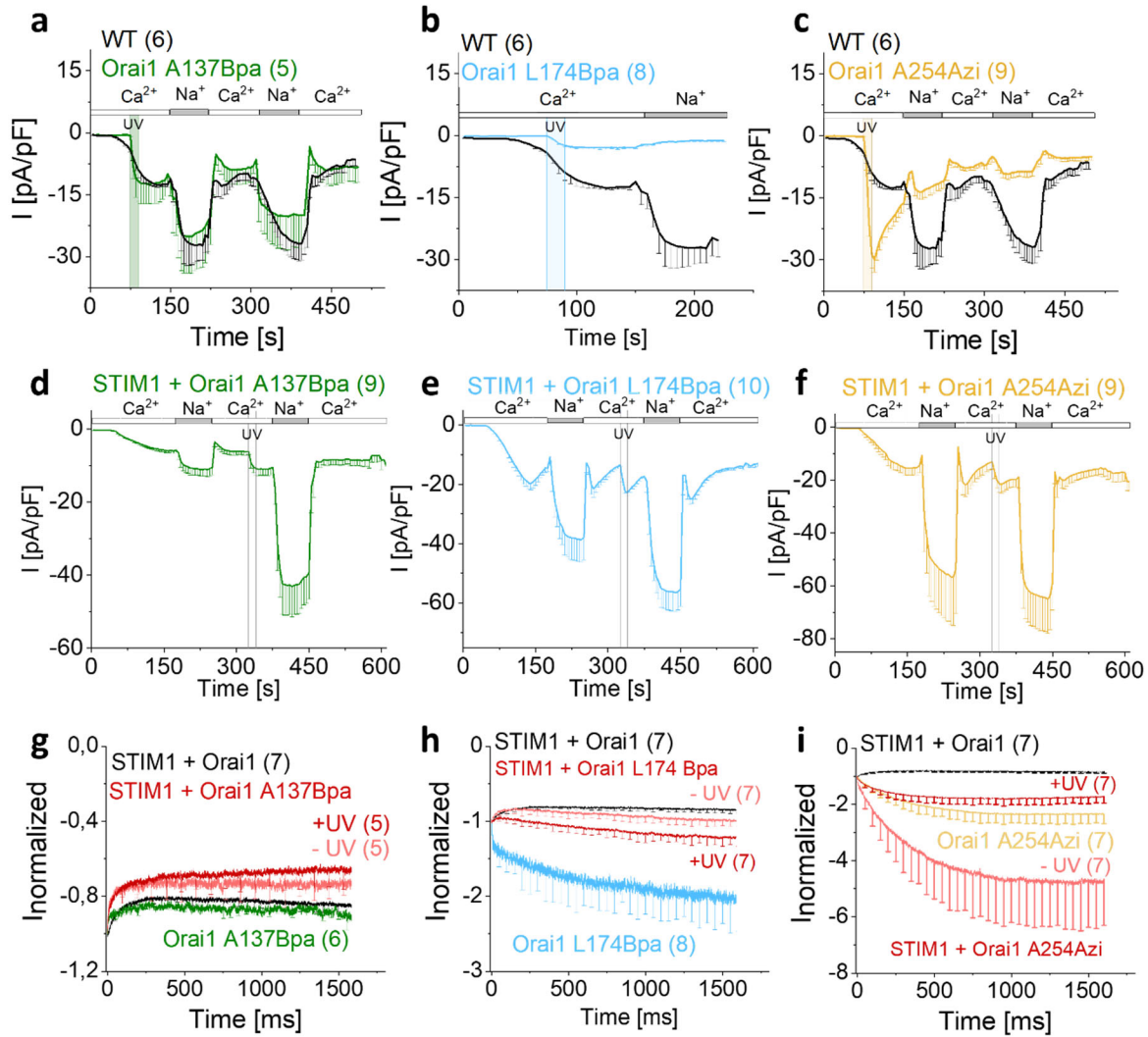


Supplementary Figure 8: **GoF mutations in Orai1 TM domains, but not Orai1 nexus, largely interfere with STIM1-mediated activation of photocrosslinking UAA-containing Orai1 mutants.** Graphical illustration on the left-hand side represent photocrosslinking UAA-containing Orai1 mutants, exemplarily shown for Orai1 A137Bpa (star), combined with one of the following GoF mutations: V102A, H134A, V181K, P245L and ²⁶¹ANSGA₂₆₅ (black line) in the presence of STIM1. **a)** Bar diagram summarizes currents measured before (t=235s) and after (t=265s) application of UV light for the above mentioned photocrosslinking UAA- and GoF mutation-containing Orai1 double mutants in the presence of STIM1 (Welch-ANOVA for Orai1 A137Bpa mutants: $F(11;20,08)=13,3$, $p=6,64 \cdot 10^{-7}$; for Orai1 L174Bpa mutants $F(11;32,26)=9,82$, $p=1,88 \cdot 10^{-7}$; for Orai1 A254Azi mutants $F(11;25,27)=15,90$, $p=1,18 \cdot 10^{-8}$). **b)-g)** I/V relationships of Orai1 V102A A137Bpa (b,e), Orai1 V102A L174Bpa (c,f), and Orai1 V102A A254Azi (d,g) with or without co-expression of STIM1. **h)** Corresponding reversal potential (V_{rev}) to b-g) and Orai1 V102A with and without co-expression of STIM1 (one way ANOVA $F(13, 42)=2,77$, $p=0,00619$). **i)** Time courses of current densities after whole-cell break-in of the light-sensitive Orai1 A137Bpa mutant combined with the various GoF mutations: L130S, L138F, V181A, L185A and A235C. UV light is applied for 15s. Data represent mean values $\pm$ SEM of indicated number (n) of experiments. * Significant differences ($p < 0.05$). Detailed statistic values are shown in **Supplementary Table 3**. Source data are provided as a Source Data file.

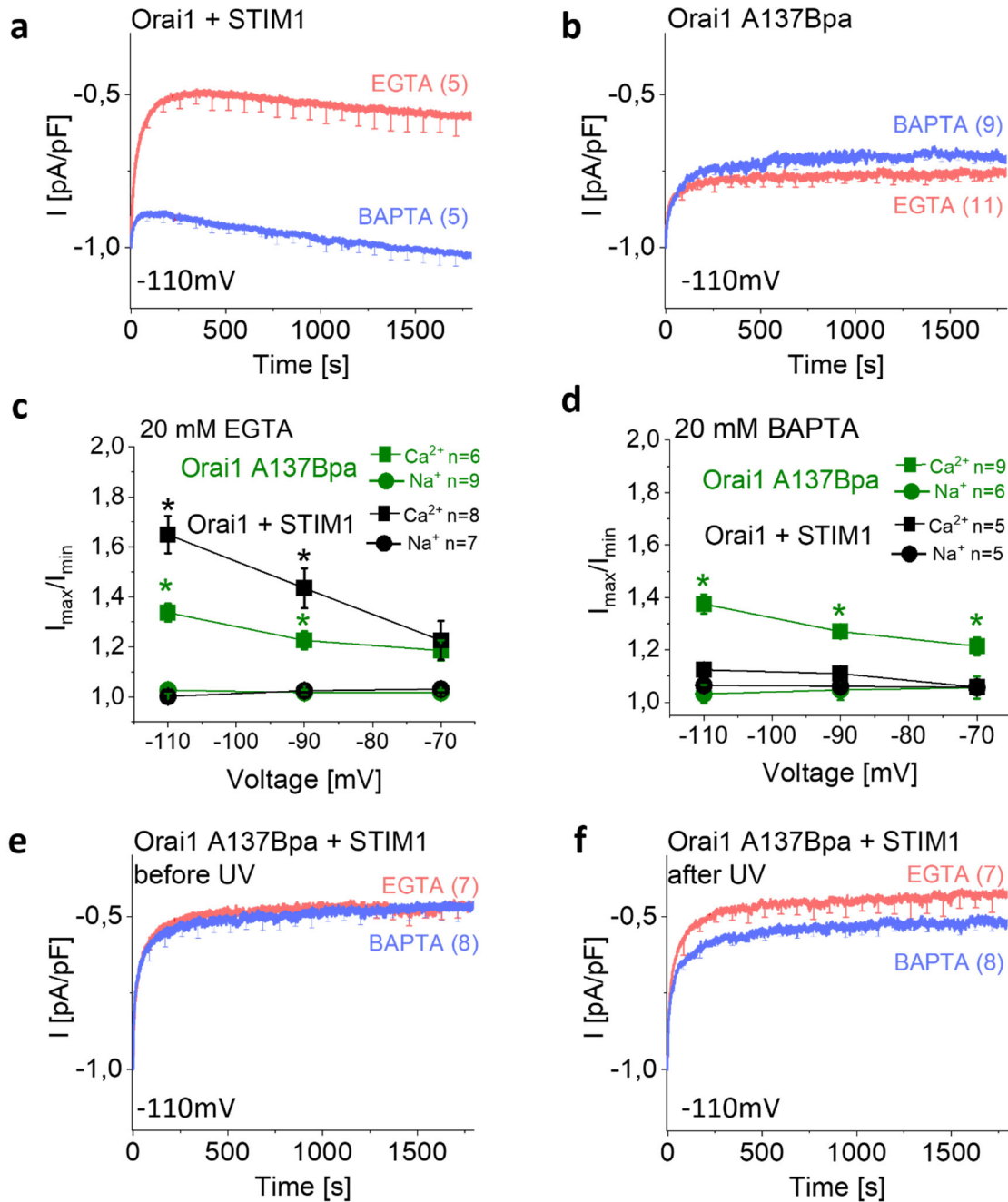


Supplementary Figure 9: **Light-sensitive Orai1 mutants require an intact channel geometry.** Graphical illustrations represent photocrosslinking UAA-containing Orai1 mutants, exemplarily shown for Orai1 A137Bpa, combined with various N-terminal truncations (scissor) or cytosolic extended TM region (CETR) – LoF mutations (crossed circle). **a) and b)** Ca^{2+} imaging measurements of the light-sensitive Orai1 mutants (Orai1 A137Bpa (a), and Orai1 A254Azi (b)) paired with different N-terminal truncations ($\Delta 1$ -60/70/72) using R-GECO1.2. Normalized intensity plots were initially monitored in 0mM Ca^{2+} solution followed by 2mM Ca^{2+} solution. UV light is applied for 10s and 30s. Due to filter exchange, R-GECO1.2 intensity could not be recorded simultaneously with exposure to UV light. **c)-e)** The bar diagram summarizes maximal currents of the light-sensitive Orai1 mutants (Orai1 A137Bpa (c), Orai1 L174Bpa (d) and Orai1 A254Azi (e)) paired with different N-terminal truncations ($\Delta 1$ -47/60/64/68/70/71/72/78) before and after application of 15s UV light (Welch-ANOVA before UV: $F(8;25,15)=7.73$, $p=3.49 \times 10^{-5}$ (c); $F(8;22,81)=1.44$, $p=0.23$ (d); $F(7;16,86)=2.55$, $p=0.05$ (e); after UV: $F(8;26,08)=19.43$, $p=3.92 \times 10^{-9}$ (c); $F(8;24,84)=8.94$, $p=1.03 \times 10^{-5}$ (d); $F(7;16,83)=12.88$, $p=1.09 \times 10^{-5}$ (e)). **f) and g)** Ca^{2+} imaging measurements of Orai1 A137Bpa (f) and Orai1 A254Azi (g) paired with CETR-LoF mutations (K85E/E149K/L174D) using R-GECO1.2. Normalized intensity plots were initially monitored in 0mM Ca^{2+} solution followed by 2mM Ca^{2+} solution. UV light is applied for 10s and 30s. Due to filter exchange, R-GECO1.2 intensity could not be recorded simultaneously with exposure to UV light. Data represent mean

values $\pm$ SEM of indicated number (n) of experiments. *Significant differences ($p < 0.05$). Detailed statistic values are shown in **Supplementary Table 3**. Source data are provided as a Source Data file.



Supplementary Figure 10: UV light-activated Orai1 A137Bpa currents match CRAC channel hallmarks best. **a)-c)** Time course showing normalized currents of Orai1 A137Bpa (a), Orai1 L174Bpa (b) and Orai1 A254Azi (c) in the absence of STIM1 as well as with and without exposure to UV light compared to wild-type STIM1/Orai1 upon application of a voltage step to -70mV from a holding potential of 0mV. **d)-f)** Time course of current densities after whole-cell break-in comparing Orai1 A137Bpa (d), Orai1 L174Bpa (e) and Orai1 A254Azi (f) in the presence of STIM1. Currents were initially monitored in 10mM Ca²⁺ solution which was then exchanged by a DVF Na⁺-containing solution in a reversible manner (except (e)). 15s UV light illumination was only applicable for the light-sensitive Orai1 mutants. **g)-i)** Time course showing normalized currents of the three light-sensitive Orai1 mutants in the absence as well as the presence of STIM1 (+/- UV light) compared to wild-type CRAC channel (STIM1 + Orai1; WT) obtained upon application of a voltage step to -70mV from a holding potential of 0mV using 20mM EGTA in the internal pipette solution. Data represent mean values $\pm$ SEM of indicated number (*n*) of experiments. Source data are provided as a Source Data file.



Supplementary Figure 11: **Orai1 A137Bpa displays Ca^{2+} dependent inactivation, however, to distinct extents than a wild-type CRAC channel** **a)** and **b)** Time course showing normalized currents of a wild-type CRAC channel (STIM1 + Orai1) (**a**) or Orai1 A137Bpa (**b**) obtained upon application of a voltage step to -110mV from a holding potential of 0mV while using 20mM EGTA or 20mM BAPTA as Ca^{2+} -chelator within the internal pipette solution. **c)** and **d)** Ratio of maximum (I_{max} at $t=0\text{s}$) versus minimum (I_{min} at $t=250\text{s}$) currents obtained upon application of voltage steps to -110mV, -90mV or -70mV from a holding potential of 0mV using 20mM EGTA (**c**) or 20mM BAPTA (**d**) in the internal pipette solution. (One-way ANOVA/Welch-ANOVA for EGTA: $F(3, 26)=5,61$, $p=0,0042$ (-70mV); $F(3, 11,38)=16,6$, $p=0,02,14 \cdot 10^{-4}$ (-90mV) and $F(3, 29)=50,6$, $p<0,0001$ (-110mV); one-way ANOVA for BAPTA: $F(3, 21)=6,3$, $p=0,0032$ (-70mV); $F(3, 21)=13,95$, $p<0,0001$ (-90mV) and $F(3, 21)=23,71$, $p<0,0001$ (-110mV)) **e)** and **f)** Corresponding time course to (**b**) co-expressing Orai1 A137Bpa and STIM1

before versus after passive store-depletion, (e), before and after (f) store-depletion and subsequent application of UV light. Data represent mean values $\pm$ SEM of indicated number (n) of experiments. *Significant differences ($p < 0.05$). Detailed statistic values are shown in **Supplementary Table 3**. Source data are provided as a Source Data file.

Supplementary Table 1: **Fast and slow decay times of FCDI or reactivation of Orai channels.** Table indicates τ_{fast} and τ_{slow} for FCDI of STIM1/Orai1 and Orai1 A137Bpa currents and τ_{fast} for Orai1 A254Azi currents showing only reactivation. Decay times for FCDI of STIM1/Orai1 and Orai1 A137Bpa $\pm$ STIM1 currents were determined using EGTA and BAPTA. Decay times for FCDI and/or reactivation were determined for Orai1 L174Bpa $\pm$ STIM1 and Orai1 A254Azi $\pm$ STIM1 currents using EGTA.

				EGTA		BAPTA	
STIM1	UV	mV		τ_{slow} [ms]	τ_{fast} [ms]	τ_{slow} [ms]	τ_{fast} [ms]
+	-	-70	Orai	$16,82 \pm 1,33$	$86,42 \pm 1,03$	$1,91 \pm 0,43$	$18,98 \pm 0,70$
		-90		$10,55 \pm 0,29$	$62,00 \pm 0,57$	$5,25 \pm 0,39$	$32,92 \pm 0,90$
		-110		$11,04 \pm 0,15$	$68,13 \pm 0,31$	$2,01 \pm 0,36$	$22,45 \pm 1,20$
-	+	-70	A137Bpa	$3,75 \pm 0,30$	$242,92 \pm 31,75$	$45,28 \pm 2,52$	$228,95 \pm 8,49$
		-90		$6,81 \pm 0,17$	$144,88 \pm 8,79$	$39,26 \pm 2,18$	$292,77 \pm 7,04$
		-110		$8,62 \pm 0,19$	$128,03 \pm 1,78$	$42,49 \pm 1,58$	$350,50 \pm 9,98$
+	-	-70	A137Bpa	$10,17 \pm 0,43$	$91,46 \pm 2,33$	$10,37 \pm 0,29$	$171,31 \pm 2,95$
		-90		$17,07 \pm 0,20$	$133,31 \pm 1,13$	$16,69 \pm 0,18$	$236,88 \pm 1,26$
		-110		$30,17 \pm 0,19$	$343,52 \pm 2,12$	$12,83 \pm 0,15$	$131,84 \pm 1,32$
+	+	-70	A137Bpa	$22,90 \pm 0,88$	$163,38 \pm 6,21$	$14,50 \pm 0,35$	$243,26 \pm 3,63$
		-90		$17,11 \pm 0,38$	$166,30 \pm 6,27$	$22,25 \pm 0,26$	$386,72 \pm 2,64$
		-110		$41,73 \pm 0,19$	$566,00 \pm 4,62$	$27,16 \pm 0,22$	$373,47 \pm 2,21$
-	+	-70	L174Bpa	$7,07 \pm 0,29$	$702,20 \pm 4,46$	n.d.	n.d.
+	-	-70	L174Bpa	$32,25 \pm 0,34$	$208,10 \pm 2,55$	n.d.	n.d.
+	+	-70	L174Bpa	$19,13 \pm 0,95$	$1133,72 \pm 6,64$	n.d.	n.d.
-	+	-70	A254Azi	$294,11 \pm 0,33$		n.d.	n.d.
+	-	-70	A254Azi	$339,40 \pm 0,36$		n.d.	n.d.
+	+	-70	A254Azi	$186,93 \pm 0,31$		n.d.	n.d.

Supplementary Table 2: **List of used primers** (F indicates forward primer, R indicates reverse primer).

	Orai1 mutants	Primer	Primer sequence (5' - 3')
cloning	Orai1 Δ 1 - 47	F	tatata gaattc atg tcc gcc gtc acc tac ccg
		R	tatata ccgcgg ggc ata gtg gct gcc ggg
	Orai1 Δ 1 - 60	F	tatata gaattc atg tcc gag gtg atg agc ctc aac gag cac
		R	tatata ccgcgg ggc ata gtg gct gcc ggg
	Orai1 Δ 1 - 64	F	tatata gaattc atg agc ctc aac gag cac tcc atg
		R	tatata ccgcgg ggc ata gtg gct gcc ggg
	Orai1 Δ 1 - 68	F	tatata gaattc atg cac tcc atg cag gcg ctg
		R	tatata ccgcgg ggc ata gtg gct gcc ggg
	Orai1 Δ 1 - 70	F	tatata gaattc atg atg cag gcg ctg tcc tgg
		R	tatata ccgcgg ggc ata gtg gct gcc ggg
	Orai1 Δ 1 - 71	F	tatata gaattc atg cag gcg ctg tcc tgg
		R	tatata ccgcgg ggc ata gtg gct gcc ggg
	Orai1 Δ 1 - 72	F	tatata gaattc atg gcg ctg tcc tgg cgc aag
		R	tatata ccgcgg ggc ata gtg gct gcc ggg
	Orai1 Δ 1 - 78	F	tatata gaattc atg ctc tac ttg agc cgc gcc
		R	tatata ccgcgg ggc ata gtg gct gcc ggg
TM1	K85E	F	acttgagccgcgcgagcttaaagcctcc
		R	ggaggctttaagctcggcgcggtcaagt
	V102A	F	ggcttcgccatggcggaatggtggag
		R	ctccaccattgccgcatggcgaagcc
	E106Q	F	ggtggcaatggtgcaggtgcagctgga
		R	tccagctgcacctgcaccattgccacc
TM2	L130S	F	cctgcaccacagtgtcgggtgctgtgcacc
		R	gggtcacagccaccgacactgtggtgcagg
	L130*	F	cctgcaccacagtgtagggtgctgtgcacc
		R	gggtcacagccacctacactgtggtgcagg
	H134A	F	gtgctgggtgctgtggccctgtttgcgctcat
		R	atgagcgcaaacaggggccacagccaccagcac
	H134A A137*	F	cagtgtgtgtggctgtggccctgttttagctcatgatcagcacct
		R	agggtgctgatcatgagctaaaacaggggccacagccaccagcactg
	H134*	F	gtgctgggtgctgtgtagctgtttgcgctcatg
		R	catgagcgcaaacagctacacagccaccagcac
	F136*	F	atcatgagcgctacagggtgcacagccaccagca
		R	tgctgggtgctgtgcacctgtaggcgctcatgat
	A137*	F	gctgggtgctgtgcacctgttttagctcatgatcag
		R	ctgatcatgagctaaaacagggtgcacagccaccagc
	A137* L138F	F	gctgggtgctgtgcacctgttttagttcatgatcagcacctg
		R	cagggtgctgatcatgaactaaaacagggtgcacagccaccagc
	L138F	F	tgtgcacctgtttgcgttcgatgatcagcacctg
		R	cagggtgctgatcatgaacgcaaacagggtgcaca
	L138*	F	gctgtgcacctgtttgcgttagatgatcagcacctgcatc
		R	gatgcagggtgctgatcatctacgcaaacagggtgcacagc
	E149K	F	atcctgcccacatcaaggcggtgagcaac
		R	gttgctcaccgcctgatgttgggcaggat

TM3	L174D	F	caccgccacatcgaggatgcttgggccttctcc
		R	ggagaaggcccaggcatcctcgatgtggcggtg
	L174*	F	ccgccacatcgagtaggcctgggccttc
		R	gaaggcccaggcctactcgatgtggcgg
	W176*	F	cacatcgagctggcctaggccttctcca
		R	tggagaaggcctaggccagctcgatgtg
	S179*	F	gctggcctgggccttctagaccgtcatcg
		R	cgatgacggtctagaaggcccaggccagc
	V181A	F	gccttctccaccgccatcggcacgctg
		R	cagcgtgccgatggcggtggagaaggc
	V181K	F	tgggccttctccaccaagatcggcacgctgctc
		R	gagcagcgtgccgatcttgggtggagaaggccca
	V181*	F	tgggccttctccacctagatcggcacgctgctc
		R	gagcagcgtgccgatctagggtggagaaggccca
	L185A	F	ccgtcatcggcacggcgctcttcttagctg
		R	cagctaggaagagcgccgtgccgatgacgg
	L185*	F	caccgtcatcggcacgtagctcttcttagctgag
		R	ctcagctaggaagagctacgtgccgatgacggtg
	F187*	F	cggcacgctgctctagctagctgaggtggt
		R	accacctcagctagctagagcagcgtgccg
	L188*	F	cggcacgctgctcttctaggctgaggtggtgctgc
		R	gcagcaccacctcagcctagaagagcagcgtgccg
	V191*	F	gctcttctagctgagtaggtgctgctgctg
		R	ccagcagagcagcacctactcagctaggaagagc
	L194*	F	ctagctgaggtggtgctgtagtgcgtgggtcaagtcttg
		R	caagaacttgaccagcactacagcaccacctcagctag
TM4	A235C	F	accccgggccaggcatgtgccatgcc
		R	ggcgatggcacatgcctggcccggtg
	A235*	F	caccccgggccaggcataggccatgcctcg
		R	cgaggcgatggcctatgcctggcccggtg
	S239*	F	agctgccatgcctagaccacctatcg
		R	ccatgatggtggtctaggcgatggcagct
	M243*	F	cctcgaccacctctaggtgcccttcggcc
		R	ggccgaaggccacctagatggtggtcgagg
	P245L	F	ccaccatcatggtgctcttcggcctgatctt
		R	aagatcaggccgaagagcaccatgatggtgg
	P245*	F	ctcgaccacctatggtgtagttcggcctgatcttatcg
		R	cgataaagatcaggccgaactacacctgatggtggtcgag
	F250*	F	ccctcggcctgatctagatcgtcttcgcgtcc
		R	ggacggcgaagacgatctagatcaggccgaagg
	A254*	F	gcctgatctttatcgtcttctaggtccacttctaccgctcact
		R	agtgagcggtagaagtggacctagaagacgataaagatcaggc
	ANSGA	F	tcgccgtccacttctaccgctcagcgaatagcgtgctgactgaccgacagtccaggagc
		R	gctcctggaactgtcggctcagtcgaccgctattcgtgagcggtagaagtggacggcga
C-ter	L273D	F	gacagttccaggaggacaacgagctggcgg
		R	ccgccagctcgtgtcctcctggaactgtc
	STIM1 mutants	Primer	Primer sequence (5' - 3')
STIM1	L373S	F	aaaatgctgagaagcagtcgctggtggccaaggagg
		R	cctcctggccaccagcagctgcttctcagcat

	L373S A376S	F	aaatgctgagaagcagtcgctggtagcaaggagggggctgag
		R	ctcagccccctcctgctcaccagcgactgcttctcagcattt

Supplementary Table 3: **Statistical analysis** of significant differences ($p < 0.05$) of data sets in their respective graphs and statistical test (0 indicates not significant, 1 indicates significant).

[illegible]

[illegible]

6a A254Azi GOF	Welch-ANOVA	6,72E-10	F(11, 32,59)=15.15	V181K + H134A +	0,78254	0
				V181K + V181K -	0,99643	0
				P245L - -	0,07204	0
				P245L - +	0,99185	0
				P245L - V102A -	0,13335	0
				P245L - V102A +	0,10642	0
				P245L - H134A -	0,99994	0
				P245L - H134A +	1	0
				P245L - V181K -	0,99985	0
				P245L - V181K +	0,83502	0
				P245L + -	0,00859	1
				P245L + +	0,17433	0
				P245L + V102A -	0,87989	0
				P245L + V102A +	0,75451	0
				P245L + H134A -	0,04575	1
				P245L + H134A +	0,07132	0
				P245L + V181K -	0,17807	0
				P245L + V181K +	0,53816	0
				P245L + P245L -	0,07525	0
				ANSGA - -	1	0
				ANSGA - +	0,03595	1
				ANSGA - V102A -	0,07017	0
				ANSGA - V102A +	0,05878	0
				ANSGA - H134A -	0,03528	1
				ANSGA - H134A +	0,00882	1
				ANSGA - V181K -	0,08349	0
				ANSGA - V181K +	0,02626	1
				ANSGA - P245L -	0,07585	0
				ANSGA - P245L +	0,00945	1
				ANSGA + -	0,20711	0
				ANSGA + +	1	0
				ANSGA + V102A -	0,16436	0
				ANSGA + V102A +	0,12773	0
				ANSGA + H134A -	0,98441	0
				ANSGA + H134A +	0,99985	0
				ANSGA + V181K -	1	0
				ANSGA + V181K +	0,99524	0
				ANSGA - P245L -	0,99993	0
				ANSGA - P245L +	0,19104	0
				ANSGA + ANSGA -	0,21572	0
6b	Welch-ANOVA	0	F(35, 326.09)=27.12	+ -	4,91E-04	1
				V102A - -	0,04066	1
				V102A - +	0,00142	1
				V102A + -	0,01412	1
				V102A + +	0,00167	1
				V102A + V102A -	0,99999	0
				H134A - -	0,55781	0
				H134A - +	7,33E-04	1
				H134A - V102A -	0,52735	0
				H134A - V102A +	0,22626	0
				H134A + -	0,46825	0
				H134A + +	7,91E-04	1
				H134A + V102A -	0,72971	0
				H134A + V102A +	0,39	0
				H134A + H134A -	1	0
				V181K - -	0,16093	0
				V181K - +	0,00111	1
				V181K - V102A -	0,9997	0
				V181K - V102A +	0,97696	0
				V181K - H134A -	0,95662	0
				V181K - H134A +	0,99279	0
				V181K + -	0,07361	0
				V181K + +	0,00152	1
				V181K + V102A -	1	0
				V181K + V102A +	1	0
				V181K + H134A -	0,6125	0
				V181K + H134A +	0,77598	0
				V181K + V181K -	0,99926	0
				P245L - -	0,0256	1
				P245L - +	0,00326	1
				P245L - V102A -	0,71102	0
				P245L - V102A +	0,88014	0
				P245L - H134A -	0,08421	0
				P245L - H134A +	0,11743	0
				P245L - V181K -	0,42383	0
				P245L - V181K +	0,86191	0
				P245L + -	0,01852	1
				P245L + +	0,06035	0
				P245L + V102A -	0,06316	0
				P245L + V102A +	0,07886	0
				P245L + H134A -	0,02703	1
				P245L + H134A +	0,02936	1
				P245L + V181K -	0,04464	1
				P245L + V181K +	0,06886	0
				P245L + P245L -	0,21193	0
				ANSGA - -	0,97723	0
				ANSGA - +	5,78E-04	1
				ANSGA - V102A -	0,13881	0
				ANSGA - V102A +	0,04465	1
				ANSGA - H134A -	0,99315	0
				ANSGA - H134A +	0,96704	0
				ANSGA - V181K -	0,52531	0
				ANSGA - V181K +	0,21769	0
				ANSGA - P245L -	0,03689	1
				ANSGA - P245L +	0,02086	1
				ANSGA + -	0,05384	0
				ANSGA + +	0,99201	0
				ANSGA + V102A -	0,08551	0
				ANSGA + V102A +	0,09222	0
				ANSGA + H134A -	0,06366	0
				ANSGA + H134A +	0,06576	0
				ANSGA + V181K -	0,07614	0
				ANSGA + V181K +	0,08747	0
				ANSGA + P245L -	0,1242	0
				ANSGA + P245L +	0,49877	0
				ANSGA + ANSGA -	0,05749	0
6b	Welch-ANOVA	0	F(35, 326.09)=27.12	A137Bpa+ UV A137Bpa - UV	6,07E-05	1
				L1748pa -UV A137Bpa - UV	0,15761	0
				L1748pa -UV A137Bpa+ UV	3,02E-07	1
				L1748pa +UV A137Bpa - UV	0,99999	0
				L1748pa +UV A137Bpa+ UV	0,03217	1
				L1748pa +UV L1748pa -UV	0,26637	0
				A254Azi-UV A137Bpa - UV	0,69267	0
				A254Azi-UV A137Bpa+ UV	1,12E-06	1

	A254Azi-UV L1748pa -UV	0,99847	0
	A254Azi-UV L1748pa +UV	0,57244	0
	A254Azi+UV A1378pa - UV	0	1
	A254Azi+UV A1378pa+ UV	1	0
	A254Azi+UV L1748pa -UV	5,39E-07	1
	A254Azi+UV L1748pa +UV	6,12E-04	1
	A254Azi+UV A254Azi-UV	0	1
	A1378pa V102A -UV A1378pa - UV	0,22314	0
	A1378pa V102A -UV A1378pa+ UV	4,32E-07	1
	A1378pa V102A -UV L1748pa -UV	1	0
	A1378pa V102A -UV L1748pa +UV	0,32298	0
	A1378pa V102A -UV A254Azi-UV	0,99997	0
	A1378pa V102A -UV A254Azi+UV	0	1
	A1378pa V102A+UV A1378pa - UV	0,0414	1
	A1378pa V102A+UV A1378pa+ UV	1,99E-07	1
	A1378pa V102A+UV L1748pa -UV	1	0
	A1378pa V102A+UV L1748pa +UV	0,16317	0
	A1378pa V102A+UV A254Azi-UV	0,28016	0
	A1378pa V102A+UV A254Azi+UV	1,59E-07	1
	A1378pa V102A+UV A1378pa V102A -UV	0,99277	0
	L1748pa V102A-UV A1378pa - UV	0,98794	0
	L1748pa V102A-UV A1378pa+ UV	1,41E-06	1
	L1748pa V102A-UV L1748pa -UV	1	0
	L1748pa V102A-UV L1748pa +UV	0,79878	0
	L1748pa V102A-UV A254Azi-UV	1	0
	L1748pa V102A-UV A254Azi+UV	0	1
	L1748pa V102A-UV A1378pa V102A -UV	1	0
	L1748pa V102A-UV A1378pa V102A+UV	0,99718	0
	L1748pa V102A+UV A1378pa - UV	0,98644	0
	L1748pa V102A+UV A1378pa+ UV	1,37E-06	1
	L1748pa V102A+UV L1748pa -UV	1	0
	L1748pa V102A+UV L1748pa +UV	0,79289	0
	L1748pa V102A+UV A254Azi-UV	1	0
	L1748pa V102A+UV A254Azi+UV	0	1
	L1748pa V102A+UV A1378pa V102A -UV	1	0
	L1748pa V102A+UV A1378pa V102A+UV	0,99717	0
	L1748pa V102A+UV L1748pa V102A -UV	1	0
	A254Azi V102A-UV A1378pa - UV	0,99998	0
	A254Azi V102A-UV A1378pa+ UV	6,33E-04	1
	A254Azi V102A-UV L1748pa -UV	3,46E-04	1
	A254Azi V102A-UV L1748pa +UV	1	0
	A254Azi V102A-UV A254Azi-UV	0,00752	1
	A254Azi V102A-UV A254Azi+UV	4,60E-08	1
	A254Azi V102A-UV A1378pa V102A -UV	6,29E-04	1
	A254Azi V102A-UV A1378pa V102A+UV	6,29E-05	1
	A254Azi V102A-UV L1748pa V102A-UV	0,22494	0
	A254Azi V102A-UV L1748pa V102A+UV	0,21357	0
	A254Azi V102A+UV A1378pa - UV	1	0
	A254Azi V102A+UV A1378pa+ UV	5,15E-04	1
	A254Azi V102A+UV L1748pa -UV	5,40E-04	1
	A254Azi V102A+UV L1748pa +UV	1	0
	A254Azi V102A+UV A254Azi-UV	0,01145	1
	A254Azi V102A+UV A254Azi+UV	1,17E-08	1
	A254Azi V102A+UV A1378pa V102A -UV	9,74E-04	1
	A254Azi V102A+UV A1378pa V102A+UV	9,46E-05	1
	A254Azi V102A+UV L1748pa V102A-UV	0,2811	0
	A254Azi V102A+UV L1748pa V102A+UV	0,26811	0
	A254Azi V102A+UV A254Azi V102A-UV	1	0
	A1378pa H134A-UV A1378pa - UV	0,01778	1
	A1378pa H134A-UV A1378pa+ UV	1,09E-07	1
	A1378pa H134A-UV L1748pa -UV	0,99578	0
	A1378pa H134A-UV L1748pa +UV	0,11269	0
	A1378pa H134A-UV A254Azi-UV	0,02572	1
	A1378pa H134A-UV A254Azi+UV	1,71E-07	1
	A1378pa H134A-UV A1378pa V102A -UV	0,59912	0
	A1378pa H134A-UV A1378pa V102A+UV	0,54457	0
	A1378pa H134A-UV L1748pa V102A-UV	0,96446	0
	A1378pa H134A-UV L1748pa V102A+UV	0,96386	0
	A1378pa H134A-UV A254Azi V102A-UV	2,32E-05	1
	A1378pa H134A-UV A254Azi V102A+UV	3,45E-05	1
	A1378pa H134A+ UV A1378pa - UV	0,01978	1
	A1378pa H134A+ UV A1378pa+ UV	1,19E-07	1
	A1378pa H134A+ UV L1748pa -UV	0,99837	0
	A1378pa H134A+ UV L1748pa +UV	0,11819	0
	A1378pa H134A+ UV A254Azi-UV	0,03577	1
	A1378pa H134A+ UV A254Azi+UV	1,70E-07	1
	A1378pa H134A+ UV A1378pa V102A -UV	0,67729	0
	A1378pa H134A+ UV A1378pa V102A+UV	0,79482	0
	A1378pa H134A+ UV L1748pa V102A-UV	0,97223	0
	A1378pa H134A+ UV L1748pa V102A+UV	0,97179	0
	A1378pa H134A+ UV A254Azi V102A-UV	2,64E-05	1
	A1378pa H134A+ UV A254Azi V102A+UV	3,92E-05	1
	A1378pa H134A+ UV A1378pa H134A-UV	1	0
	L1748pa H134A-UV A1378pa - UV	0,99997	0
	L1748pa H134A-UV A1378pa+ UV	4,67E-06	1
	L1748pa H134A-UV L1748pa -UV	0,81547	0
	L1748pa H134A-UV L1748pa +UV	0,94675	0
	L1748pa H134A-UV A254Azi-UV	0,99998	0
	L1748pa H134A-UV A254Azi+UV	0	1
	L1748pa H134A-UV A1378pa V102A -UV	0,90893	0
	L1748pa H134A-UV A1378pa V102A+UV	0,3171	0
	L1748pa H134A-UV L1748pa V102A-UV	1	0
	L1748pa H134A-UV L1748pa V102A+UV	1	0
	L1748pa H134A-UV A254Azi V102A-UV	0,47064	0
	L1748pa H134A-UV A254Azi V102A+UV	0,56013	0
	L1748pa H134A-UV A1378pa H134A-UV	0,1405	0
	L1748pa H134A-UV A1378pa H134A+ UV	0,15648	0
	L1748pa H134A+UV A1378pa - UV	1	0
	L1748pa H134A+UV A1378pa+ UV	1,05E-05	1
	L1748pa H134A+UV L1748pa -UV	0,27252	0
	L1748pa H134A+UV L1748pa +UV	0,98969	0
	L1748pa H134A+UV A254Azi-UV	0,95338	0
	L1748pa H134A+UV A254Azi+UV	0	1
	L1748pa H134A+UV A1378pa V102A -UV	0,38115	0
	L1748pa H134A+UV A1378pa V102A+UV	0,04254	1
	L1748pa H134A+UV L1748pa V102A-UV	0,99999	0
	L1748pa H134A+UV L1748pa V102A+UV	0,99999	0
	L1748pa H134A+UV A254Azi V102A-UV	0,78912	0
	L1748pa H134A+UV A254Azi V102A+UV	0,85926	0
	L1748pa H134A+UV A1378pa H134A-UV	0,01427	1
	L1748pa H134A+UV A1378pa H134A+ UV	0,01637	1
	L1748pa H134A+UV L1748pa H134A-UV	1	0
	A254Azi H134A-UV A1378pa - UV	0,10016	0
	A254Azi H134A-UV A1378pa+ UV	3,32E-07	1
	A254Azi H134A-UV L1748pa -UV	1	0
	A254Azi H134A-UV L1748pa +UV	0,23641	0
	A254Azi H134A-UV A254Azi-UV	0,9319	0

A254Azi H134A-UV A254Azi+UV	5,68E-07	1
A254Azi H134A-UV A137Bpa V102A -UV	1	0
A254Azi H134A-UV A137Bpa V102A+UV	0,99975	0
A254Azi H134A-UV L174Bpa V102A-UV	0,99998	0
A254Azi H134A-UV L174Bpa V102A+UV	0,99998	0
A254Azi H134A-UV A254Azi V102A-UV	1,89E-04	1
A254Azi H134A-UV A254Azi V102A+UV	2,89E-04	1
A254Azi H134A-UV A137Bpa H134A-UV	0,29749	0
A254Azi H134A-UV A137Bpa H134A+ UV	0,42385	0
A254Azi H134A-UV L174Bpa H134A-UV	0,63113	0
A254Azi H134A-UV L174Bpa H134A+UV	0,13581	0
A254Azi H134A+UV A137Bpa - UV	0,05986	0
A254Azi H134A+UV A137Bpa+ UV	2,49E-07	1
A254Azi H134A+UV L174Bpa -UV	1	0
A254Azi H134A+UV L174Bpa +UV	0,19078	0
A254Azi H134A+UV A254Azi-UV	0,57706	0
A254Azi H134A+UV A254Azi+UV	7,58E-07	1
A254Azi H134A+UV A137Bpa V102A -UV	0,99996	0
A254Azi H134A+UV A137Bpa V102A+UV	1	0
A254Azi H134A+UV L174Bpa V102A-UV	0,99946	0
A254Azi H134A+UV L174Bpa V102A+UV	0,99946	0
A254Azi H134A+UV A254Azi V102A-UV	9,80E-05	1
A254Azi H134A+UV A254Azi V102A+UV	1,48E-04	1
A254Azi H134A+UV A137Bpa H134A-UV	0,39786	0
A254Azi H134A+UV A137Bpa H134A+ UV	0,59857	0
A254Azi H134A+UV L174Bpa H134A-UV	0,43471	0
A254Azi H134A+UV L174Bpa H134A+UV	0,06905	0
A254Azi H134A+UV A254Azi H134A-UV	1	0
A137Bpa V181K-UV A137Bpa - UV	0,02129	1
A137Bpa V181K-UV A137Bpa+ UV	1,25E-07	1
A137Bpa V181K-UV L174Bpa -UV	0,99925	0
A137Bpa V181K-UV L174Bpa +UV	0,12208	0
A137Bpa V181K-UV A254Azi-UV	0,04535	1
A137Bpa V181K-UV A254Azi+UV	1,69E-07	1
A137Bpa V181K-UV A137Bpa V102A -UV	0,73319	0
A137Bpa V181K-UV A137Bpa V102A+UV	0,93627	0
A137Bpa V181K-UV L174Bpa V102A-UV	0,97682	0
A137Bpa V181K-UV L174Bpa V102A+UV	0,97648	0
A137Bpa V181K-UV A254Azi V102A-UV	2,87E-05	1
A137Bpa V181K-UV A254Azi V102A+UV	4,27E-05	1
A137Bpa V181K-UV A137Bpa H134A-UV	1	0
A137Bpa V181K-UV A137Bpa H134A+ UV	1	0
A137Bpa V181K-UV L174Bpa H134A-UV	0,16856	0
A137Bpa V181K-UV L174Bpa H134A+UV	0,01799	1
A137Bpa V181K-UV A254Azi H134A-UV	0,53707	0
A137Bpa V181K-UV A254Azi H134A+UV	0,75986	0
A137Bpa V181K+UV A137Bpa - UV	0,03347	1
A137Bpa V181K+UV A137Bpa+ UV	1,76E-07	1
A137Bpa V181K+UV L174Bpa -UV	1	0
A137Bpa V181K+UV L174Bpa +UV	0,14932	0
A137Bpa V181K+UV A254Azi-UV	0,15144	0
A137Bpa V181K+UV A254Azi+UV	1,62E-07	1
A137Bpa V181K+UV A137Bpa V102A -UV	0,95296	0
A137Bpa V181K+UV A137Bpa V102A+UV	1	0
A137Bpa V181K+UV L174Bpa V102A-UV	0,99385	0
A137Bpa V181K+UV L174Bpa V102A+UV	0,99381	0
A137Bpa V181K+UV A254Azi V102A-UV	5,02E-05	1
A137Bpa V181K+UV A254Azi V102A+UV	7,50E-05	1
A137Bpa V181K+UV A137Bpa H134A-UV	0,03203	1
A137Bpa V181K+UV A137Bpa H134A+ UV	0,2525	0
A137Bpa V181K+UV L174Bpa H134A-UV	0,25911	0
A137Bpa V181K+UV L174Bpa H134A+UV	0,0321	1
A137Bpa V181K+UV A254Azi H134A-UV	0,9702	0
A137Bpa V181K+UV A254Azi H134A+UV	0,9999	0
A137Bpa V181K+UV A137Bpa V181K-UV	0,74029	0
L174Bpa V181K-UV A137Bpa - UV	1	0
L174Bpa V181K-UV A137Bpa+ UV	6,06E-05	1
L174Bpa V181K-UV L174Bpa -UV	0,13211	0
L174Bpa V181K-UV L174Bpa +UV	0,99999	0
L174Bpa V181K-UV A254Azi-UV	0,64171	0
L174Bpa V181K-UV A254Azi+UV	0	1
L174Bpa V181K-UV A137Bpa V102A -UV	0,18945	0
L174Bpa V181K-UV A137Bpa V102A+UV	0,03377	1
L174Bpa V181K-UV L174Bpa V102A-UV	0,98403	0
L174Bpa V181K-UV L174Bpa V102A+UV	0,98212	0
L174Bpa V181K-UV A254Azi V102A-UV	0,99997	0
L174Bpa V181K-UV A254Azi V102A+UV	1	0
L174Bpa V181K-UV A137Bpa H134A-UV	0,01451	1
L174Bpa V181K-UV A137Bpa H134A+ UV	0,01614	1
L174Bpa V181K-UV L174Bpa H134A-UV	0,99994	0
L174Bpa V181K-UV L174Bpa H134A+UV	1	0
L174Bpa V181K-UV A254Azi H134A-UV	0,0826	0
L174Bpa V181K-UV A254Azi H134A+UV	0,04896	1
L174Bpa V181K-UV A137Bpa V181K-UV	0,01736	1
L174Bpa V181K-UV A137Bpa V181K+UV	0,02731	1
L174Bpa V181K+UV A137Bpa - UV	0,98059	0
L174Bpa V181K+UV A137Bpa+ UV	0,00207	1
L174Bpa V181K+UV L174Bpa -UV	4,56E-05	1
L174Bpa V181K+UV L174Bpa +UV	1	0
L174Bpa V181K+UV A254Azi-UV	8,58E-04	1
L174Bpa V181K+UV A254Azi+UV	6,03E-07	1
L174Bpa V181K+UV A137Bpa V102A -UV	8,87E-05	1
L174Bpa V181K+UV A137Bpa V102A+UV	1,50E-05	1
L174Bpa V181K+UV L174Bpa V102A-UV	0,04915	1
L174Bpa V181K+UV L174Bpa V102A+UV	0,04564	1
L174Bpa V181K+UV A254Azi V102A-UV	1	0
L174Bpa V181K+UV A254Azi V102A+UV	1	0
L174Bpa V181K+UV A137Bpa H134A-UV	6,62E-06	1
L174Bpa V181K+UV A137Bpa H134A+ UV	7,38E-06	1
L174Bpa V181K+UV L174Bpa H134A-UV	0,1168	0
L174Bpa V181K+UV L174Bpa H134A+UV	0,29604	0
L174Bpa V181K+UV A254Azi H134A-UV	3,58E-05	1
L174Bpa V181K+UV A254Azi H134A+UV	2,15E-05	1
L174Bpa V181K+UV A137Bpa V181K-UV	7,89E-06	1
L174Bpa V181K+UV A137Bpa V181K+UV	1,28E-05	1
L174Bpa V181K+UV L174Bpa V181K-UV	0,97825	0
A254Azi V181K-UV A137Bpa - UV	0,97653	0
A254Azi V181K-UV A137Bpa+ UV	0,00304	1
A254Azi V181K-UV L174Bpa -UV	1,76E-05	1
A254Azi V181K-UV L174Bpa +UV	1	0
A254Azi V181K-UV A254Azi-UV	5,62E-04	1
A254Azi V181K-UV A254Azi+UV	1,25E-06	1
A254Azi V181K-UV A137Bpa V102A -UV	3,27E-05	1
A254Azi V181K-UV A137Bpa V102A+UV	1,80E-06	1
A254Azi V181K-UV L174Bpa V102A-UV	0,04742	1
A254Azi V181K-UV L174Bpa V102A+UV	0,04403	1
A254Azi V181K-UV A254Azi V102A-UV	1	0

A254Azi V181K-UV A254Azi V102A+UV	1	0
A254Azi V181K-UV A137Bpa H134A-UV	4,81E-07	1
A254Azi V181K-UV A137Bpa H134A+ UV	5,72E-07	1
A254Azi V181K-UV L174Bpa H134A-UV	0,11775	0
A254Azi V181K-UV L174Bpa H134A+UV	0,30181	0
A254Azi V181K-UV A254Azi H134A-UV	7,28E-06	1
A254Azi V181K-UV A254Azi H134A+UV	3,18E-06	1
A254Azi V181K-UV A137Bpa V181K-UV	6,42E-07	1
A254Azi V181K-UV A137Bpa V181K+UV	1,31E-06	1
A254Azi V181K-UV L174Bpa V181K-UV	0,97417	0
A254Azi V181K-UV L174Bpa V181K+UV	1	0
A254Azi V181K+UV A137Bpa - UV	0,7788	0
A254Azi V181K+UV A137Bpa+ UV	0,01058	1
A254Azi V181K+UV L174Bpa -UV	4,39E-06	1
A254Azi V181K+UV L174Bpa +UV	1	0
A254Azi V181K+UV A254Azi-UV	1,19E-04	1
A254Azi V181K+UV A254Azi+UV	1,18E-05	1
A254Azi V181K+UV A137Bpa V102A -UV	8,13E-06	1
A254Azi V181K+UV A137Bpa V102A+UV	5,52E-07	1
A254Azi V181K+UV L174Bpa V102A-UV	0,01159	1
A254Azi V181K+UV L174Bpa V102A+UV	0,01064	1
A254Azi V181K+UV A254Azi V102A-UV	0,99998	0
A254Azi V181K+UV A254Azi V102A+UV	0,9999	0
A254Azi V181K+UV A137Bpa H134A-UV	1,31E-07	1
A254Azi V181K+UV A137Bpa H134A+ UV	1,62E-07	1
A254Azi V181K+UV L174Bpa H134A-UV	0,02944	1
A254Azi V181K+UV L174Bpa H134A+UV	0,09017	0
A254Azi V181K+UV A254Azi H134A-UV	2,08E-06	1
A254Azi V181K+UV A254Azi H134A+UV	9,57E-07	1
A254Azi V181K+UV A137Bpa V181K-UV	1,86E-07	1
A254Azi V181K+UV A137Bpa V181K+UV	4,02E-07	1
A254Azi V181K+UV L174Bpa V181K-UV	0,76666	0
A254Azi V181K+UV L174Bpa V181K+UV	1	0
A254Azi V181K+UV A254Azi V181K-UV	1	0
A137Bpa P245L-UV A137Bpa - UV	0,09163	0
A137Bpa P245L-UV A137Bpa+ UV	2,22E-07	1
A137Bpa P245L-UV L174Bpa -UV	1	0
A137Bpa P245L-UV L174Bpa +UV	0,21685	0
A137Bpa P245L-UV A254Azi-UV	0,94513	0
A137Bpa P245L-UV A254Azi+UV	7,24E-07	1
A137Bpa P245L-UV A137Bpa V102A -UV	1	0
A137Bpa P245L-UV A137Bpa V102A+UV	1	0
A137Bpa P245L-UV L174Bpa V102A-UV	0,99992	0
A137Bpa P245L-UV L174Bpa V102A+UV	0,99993	0
A137Bpa P245L-UV A254Azi V102A-UV	1,49E-04	1
A137Bpa P245L-UV A254Azi V102A+UV	2,32E-04	1
A137Bpa P245L-UV A137Bpa H134A-UV	0,99874	0
A137Bpa P245L-UV A137Bpa H134A+ UV	0,99976	0
A137Bpa P245L-UV L174Bpa H134A-UV	0,61631	0
A137Bpa P245L-UV L174Bpa H134A+UV	0,13406	0
A137Bpa P245L-UV A254Azi H134A-UV	1	0
A137Bpa P245L-UV A254Azi H134A+UV	1	0
A137Bpa P245L-UV A137Bpa V181K-UV	0,99991	0
A137Bpa P245L-UV A137Bpa V181K+UV	1	0
A137Bpa P245L-UV L174Bpa V181K-UV	0,07532	0
A137Bpa P245L-UV L174Bpa V181K+UV	2,36E-05	1
A137Bpa P245L-UV A254Azi V181K-UV	6,30E-06	1
A137Bpa P245L-UV A254Azi V181K+UV	1,68E-06	1
A137Bpa P245L+UV A137Bpa - UV	0,94237	0
A137Bpa P245L+UV A137Bpa+ UV	1,36E-06	1
A137Bpa P245L+UV L174Bpa -UV	0,9985	0
A137Bpa P245L+UV L174Bpa +UV	0,72513	0
A137Bpa P245L+UV A254Azi-UV	1	0
A137Bpa P245L+UV A254Azi+UV	0	1
A137Bpa P245L+UV A137Bpa V102A -UV	0,99993	0
A137Bpa P245L+UV A137Bpa V102A+UV	0,76163	0
A137Bpa P245L+UV L174Bpa V102A-UV	1	0
A137Bpa P245L+UV L174Bpa V102A+UV	1	0
A137Bpa P245L+UV A254Azi V102A-UV	0,0545	0
A137Bpa P245L+UV A254Azi V102A+UV	0,07707	0
A137Bpa P245L+UV A137Bpa H134A-UV	0,39865	0
A137Bpa P245L+UV A137Bpa H134A+ UV	0,44071	0
A137Bpa P245L+UV L174Bpa H134A-UV	1	0
A137Bpa P245L+UV L174Bpa H134A+UV	0,9997	0
A137Bpa P245L+UV A254Azi H134A-UV	0,98186	0
A137Bpa P245L+UV A254Azi H134A+UV	0,89148	0
A137Bpa P245L+UV A137Bpa V181K-UV	0,47165	0
A137Bpa P245L+UV A137Bpa V181K+UV	0,66501	0
A137Bpa P245L+UV L174Bpa V181K-UV	0,92506	0
A137Bpa P245L+UV L174Bpa V181K+UV	0,00675	1
A137Bpa P245L+UV A254Azi V181K-UV	0,0063	1
A137Bpa P245L+UV A254Azi V181K+UV	0,00123	1
A137Bpa P245L+UV A137Bpa P245L-UV	0,97741	0
L1748pa P245L-UV A137Bpa - UV	0,81995	0
L1748pa P245L-UV A137Bpa+ UV	9,37E-07	1
L1748pa P245L-UV L174Bpa -UV	0,99998	0
L1748pa P245L-UV L174Bpa +UV	0,61674	0
L1748pa P245L-UV A254Azi-UV	1	0
L1748pa P245L-UV A254Azi+UV	0	1
L1748pa P245L-UV A137Bpa V102A -UV	1	0
L1748pa P245L-UV A137Bpa V102A+UV	0,92324	0
L1748pa P245L-UV L174Bpa V102A-UV	1	0
L1748pa P245L-UV L174Bpa V102A+UV	1	0
L1748pa P245L-UV A254Azi V102A-UV	0,02058	1
L1748pa P245L-UV A254Azi V102A+UV	0,03024	1
L1748pa P245L-UV A137Bpa H134A-UV	0,60066	0
L1748pa P245L-UV A137Bpa H134A+ UV	0,64935	0
L1748pa P245L-UV L174Bpa H134A-UV	1	0
L1748pa P245L-UV L174Bpa H134A+UV	0,99083	0
L1748pa P245L-UV A254Azi H134A-UV	0,99918	0
L1748pa P245L-UV A254Azi H134A+UV	0,9809	0
L1748pa P245L-UV A137Bpa V181K-UV	0,68337	0
L1748pa P245L-UV A137Bpa V181K+UV	0,85949	0
L1748pa P245L-UV L174Bpa V181K-UV	0,78371	0
L1748pa P245L-UV L174Bpa V181K+UV	0,0023	1
L1748pa P245L-UV A254Azi V181K-UV	0,00198	1
L1748pa P245L-UV A254Azi V181K+UV	3,86E-04	1
L1748pa P245L-UV A137Bpa P245L-UV	0,99854	0
L1748pa P245L-UV A137Bpa P245L+UV	1	0
L1748pa P245L+UV A137Bpa - UV	1	0
L1748pa P245L+UV A137Bpa+ UV	4,58E-05	1
L1748pa P245L+UV L174Bpa -UV	0,01365	1
L1748pa P245L+UV L174Bpa +UV	0,99998	0
L1748pa P245L+UV A254Azi-UV	0,25558	0
L1748pa P245L+UV A254Azi+UV	0	1
L1748pa P245L+UV A137Bpa V102A -UV	0,02303	1
L1748pa P245L+UV A137Bpa V102A+UV	0,00115	1

	L1748pa P245L+UV L1748pa V102A-UV	0,94567	0
	L1748pa P245L+UV L1748pa V102A+UV	0,9399	0
	L1748pa P245L+UV A254Azi V102A-UV	0,99969	0
	L1748pa P245L+UV A254Azi V102A+UV	0,99994	0
	L1748pa P245L+UV A1378pa H134A-UV	3,24E-04	1
	L1748pa P245L+UV A1378pa H134A+ UV	3,80E-04	1
	L1748pa P245L+UV L1748pa H134A-UV	0,9994	0
	L1748pa P245L+UV L1748pa H134A+UV	1	0
	L1748pa P245L+UV A254Azi H134A-UV	0,00486	1
	L1748pa P245L+UV A254Azi H134A+UV	0,00206	1
	L1748pa P245L+UV A1378pa V181K-UV	4,23E-04	1
	L1748pa P245L+UV A1378pa V181K+UV	8,39E-04	1
	L1748pa P245L+UV L1748pa V181K-UV	1	0
	L1748pa P245L+UV L1748pa V181K+UV	0,9172	0
	L1748pa P245L+UV A254Azi V181K-UV	0,91502	0
	L1748pa P245L+UV A254Azi V181K+UV	0,57118	0
	L1748pa P245L+UV A1378pa P245L-UV	0,0047	1
	L1748pa P245L+UV A1378pa P245L+UV	0,74823	0
	L1748pa P245L+UV L1748pa P245L-UV	0,48289	0
	A254Azi P245L-UV A1378pa - UV	0,05603	0
	A254Azi P245L-UV A1378pa+ UV	2,43E-07	1
	A254Azi P245L-UV L1748pa -UV	1	0
	A254Azi P245L-UV L1748pa +UV	0,18596	0
	A254Azi P245L-UV A254Azi-UV	0,50415	0
	A254Azi P245L-UV A254Azi+UV	7,62E-07	1
	A254Azi P245L-UV A1378pa V102A -UV	0,99983	0
	A254Azi P245L-UV A1378pa V102A+UV	1	0
	A254Azi P245L-UV L1748pa V102A-UV	0,99925	0
	A254Azi P245L-UV L1748pa V102A+UV	0,99926	0
	A254Azi P245L-UV A254Azi V102A-UV	9,17E-05	1
	A254Azi P245L-UV A254Azi V102A+UV	1,38E-04	1
	A254Azi P245L-UV A1378pa H134A-UV	0,22837	0
	A254Azi P245L-UV A1378pa H134A+ UV	0,41726	0
	A254Azi P245L-UV L1748pa H134A-UV	0,41032	0
	A254Azi P245L-UV L1748pa H134A+UV	0,063	0
	A254Azi P245L-UV A254Azi H134A-UV	1	0
	A254Azi P245L-UV A254Azi H134A+UV	1	0
	A254Azi P245L-UV A1378pa V181K-UV	0,61383	0
	A254Azi P245L-UV A1378pa V181K+UV	0,99979	0
	A254Azi P245L-UV L1748pa V181K-UV	0,04581	1
	A254Azi P245L-UV L1748pa V181K+UV	2,07E-05	1
	A254Azi P245L-UV A254Azi V181K-UV	2,89E-06	1
	A254Azi P245L-UV A254Azi V181K+UV	8,74E-07	1
	A254Azi P245L-UV A1378pa P245L-UV	1	0
	A254Azi P245L-UV A1378pa P245L+UV	0,87004	0
	A254Azi P245L-UV L1748pa P245L-UV	0,97381	0
	A254Azi P245L-UV L1748pa P245L+UV	0,00186	1
	A254Azi P245L+UV A1378pa - UV	0,99574	0
	A254Azi P245L+UV A1378pa+ UV	0,00153	1
	A254Azi P245L+UV L1748pa -UV	9,17E-05	1
	A254Azi P245L+UV L1748pa +UV	1	0
	A254Azi P245L+UV A254Azi-UV	0,00187	1
	A254Azi P245L+UV A254Azi+UV	3,58E-07	1
	A254Azi P245L+UV A1378pa V102A -UV	1,72E-04	1
	A254Azi P245L+UV A1378pa V102A+UV	2,22E-05	1
	A254Azi P245L+UV L1748pa V102A-UV	0,08576	0
	A254Azi P245L+UV L1748pa V102A+UV	0,08025	0
	A254Azi P245L+UV A254Azi V102A-UV	1	0
	A254Azi P245L+UV A254Azi V102A+UV	1	0
	A254Azi P245L+UV A1378pa H134A-UV	8,85E-06	1
	A254Azi P245L+UV A1378pa H134A+ UV	9,96E-06	1
	A254Azi P245L+UV L1748pa H134A-UV	0,20128	0
	A254Azi P245L+UV L1748pa H134A+UV	0,45185	0
	A254Azi P245L+UV A254Azi H134A-UV	5,96E-05	1
	A254Azi P245L+UV A254Azi H134A+UV	3,30E-05	1
	A254Azi P245L+UV A1378pa V181K-UV	1,08E-05	1
	A254Azi P245L+UV A1378pa V181K+UV	1,82E-05	1
	A254Azi P245L+UV L1748pa V181K-UV	0,99516	0
	A254Azi P245L+UV L1748pa V181K+UV	1	0
	A254Azi P245L+UV A254Azi V181K-UV	1	0
	A254Azi P245L+UV A254Azi V181K+UV	1	0
	A254Azi P245L+UV A1378pa P245L-UV	4,33E-05	1
	A254Azi P245L+UV A1378pa P245L+UV	0,01457	1
	A254Azi P245L+UV L1748pa P245L-UV	0,00512	1
	A254Azi P245L+UV L1748pa P245L+UV	0,97575	0
	A254Azi P245L+UV A254Azi P245L-UV	3,13E-05	1
	A1378pa ANSGA-UV A1378pa - UV	0,14656	0
	A1378pa ANSGA-UV A1378pa+ UV	3,43E-07	1
	A1378pa ANSGA-UV L1748pa -UV	1	0
	A1378pa ANSGA-UV L1748pa +UV	0,27205	0
	A1378pa ANSGA-UV A254Azi-UV	0,99654	0
	A1378pa ANSGA-UV A254Azi+UV	5,47E-07	1
	A1378pa ANSGA-UV A1378pa V102A -UV	1	0
	A1378pa ANSGA-UV A1378pa V102A+UV	0,99973	0
	A1378pa ANSGA-UV L1748pa V102A-UV	1	0
	A1378pa ANSGA-UV L1748pa V102A+UV	1	0
	A1378pa ANSGA-UV A254Azi V102A-UV	3,12E-04	1
	A1378pa ANSGA-UV A254Azi V102A+UV	4,82E-04	1
	A1378pa ANSGA-UV A1378pa H134A-UV	0,67244	0
	A1378pa ANSGA-UV A1378pa H134A+ UV	0,76573	0
	A1378pa ANSGA-UV L1748pa H134A-UV	0,78308	0
	A1378pa ANSGA-UV L1748pa H134A+UV	0,22892	0
	A1378pa ANSGA-UV A254Azi H134A-UV	1	0
	A1378pa ANSGA-UV A254Azi H134A+UV	1	0
	A1378pa ANSGA-UV A1378pa V181K-UV	0,82762	0
	A1378pa ANSGA-UV A1378pa V181K+UV	0,99129	0
	A1378pa ANSGA-UV L1748pa V181K-UV	0,12217	0
	A1378pa ANSGA-UV L1748pa V181K+UV	4,95E-05	1
	A1378pa ANSGA-UV A254Azi V181K-UV	1,41E-05	1
	A1378pa ANSGA-UV A254Azi V181K+UV	3,74E-06	1
	A1378pa ANSGA-UV A1378pa P245L-UV	1	0
	A1378pa ANSGA-UV A1378pa P245L+UV	0,99787	0
	A1378pa ANSGA-UV L1748pa P245L-UV	0,99998	0
	A1378pa ANSGA-UV L1748pa P245L+UV	0,01001	1
	A1378pa ANSGA-UV A254Azi P245L-UV	1	0
	A1378pa ANSGA-UV A254Azi P245L+UV	9,05E-05	1
	A1378pa ANSGA +UV A1378pa - UV	0,25219	0
	A1378pa ANSGA +UV A1378pa+ UV	0,01248	1
	A1378pa ANSGA +UV L1748pa -UV	0	1
	A1378pa ANSGA +UV L1748pa +UV	1	0
	A1378pa ANSGA +UV A254Azi-UV	1,77E-07	1
	A1378pa ANSGA +UV A254Azi+UV	9,73E-06	1
	A1378pa ANSGA +UV A1378pa V102A -UV	0	1
	A1378pa ANSGA +UV A1378pa V102A+UV	0	1
	A1378pa ANSGA +UV L1748pa V102A-UV	4,91E-04	1
	A1378pa ANSGA +UV L1748pa V102A+UV	4,29E-04	1
	A1378pa ANSGA +UV A254Azi V102A-UV	0,97858	0

A137Bpa ANSGA +UV A254Azi V102A+UV	0,95529	0
A137Bpa ANSGA +UV A137Bpa H134A-UV	0	1
A137Bpa ANSGA +UV A137Bpa H134A+ UV	0	1
A137Bpa ANSGA +UV L1748pa H134A-UV	6,69E-04	1
A137Bpa ANSGA +UV L1748pa H134A+UV	0,00259	1
A137Bpa ANSGA +UV A254Azi H134A-UV	0	1
A137Bpa ANSGA +UV A254Azi H134A+UV	0	1
A137Bpa ANSGA +UV A137Bpa V181K-UV	0	1
A137Bpa ANSGA +UV A137Bpa V181K+UV	0	1
A137Bpa ANSGA +UV L1748pa V181K-UV	0,23507	0
A137Bpa ANSGA +UV L1748pa V181K+UV	0,99999	0
A137Bpa ANSGA +UV A254Azi V181K-UV	1	0
A137Bpa ANSGA +UV A254Azi V181K+UV	1	0
A137Bpa ANSGA +UV A137Bpa P245L-UV	0	1
A137Bpa ANSGA +UV A137Bpa P245L+UV	5,32E-06	1
A137Bpa ANSGA +UV L1748pa P245L-UV	1,02E-06	1
A137Bpa ANSGA +UV L1748pa P245L+UV	0,06892	0
A137Bpa ANSGA +UV A254Azi P245L-UV	0	1
A137Bpa ANSGA +UV A254Azi P245L+UV	0,99987	0
A137Bpa ANSGA +UV A137Bpa ANSGA-UV	0	1
L1748pa ANSGA-UV A137Bpa - UV	0,07101	0
L1748pa ANSGA-UV A137Bpa+ UV	2,69E-07	1
L1748pa ANSGA-UV L1748pa -UV	1	0
L1748pa ANSGA-UV L1748pa +UV	0,20403	0
L1748pa ANSGA-UV A254Azi-UV	0,7422	0
L1748pa ANSGA-UV A254Azi+UV	7,46E-07	1
L1748pa ANSGA-UV A137Bpa V102A -UV	1	0
L1748pa ANSGA-UV A137Bpa V102A+UV	1	0
L1748pa ANSGA-UV L1748pa V102A-UV	0,99978	0
L1748pa ANSGA-UV L1748pa V102A+UV	0,99978	0
L1748pa ANSGA-UV A254Azi V102A-UV	1,19E-04	1
L1748pa ANSGA-UV A254Azi V102A+UV	1,81E-04	1
L1748pa ANSGA-UV A137Bpa H134A-UV	0,59667	0
L1748pa ANSGA-UV A137Bpa H134A+ UV	0,75015	0
L1748pa ANSGA-UV L1748pa H134A-UV	0,49938	0
L1748pa ANSGA-UV L1748pa H134A+UV	0,08729	0
L1748pa ANSGA-UV A254Azi H134A-UV	1	0
L1748pa ANSGA-UV A254Azi H134A+UV	1	0
L1748pa ANSGA-UV A137Bpa V181K-UV	0,85173	0
L1748pa ANSGA-UV A137Bpa V181K+UV	0,99978	0
L1748pa ANSGA-UV L1748pa V181K-UV	0,05817	0
L1748pa ANSGA-UV L1748pa V181K+UV	2,43E-05	1
L1748pa ANSGA-UV A254Azi V181K-UV	4,14E-06	1
L1748pa ANSGA-UV A254Azi V181K+UV	1,22E-06	1
L1748pa ANSGA-UV A137Bpa P245L-UV	1	0
L1748pa ANSGA-UV A137Bpa P245L+UV	0,93496	0
L1748pa ANSGA-UV L1748pa P245L-UV	0,99217	0
L1748pa ANSGA-UV L1748pa P245L+UV	0,00273	1
L1748pa ANSGA-UV A254Azi P245L-UV	1	0
L1748pa ANSGA-UV A254Azi P245L+UV	3,88E-05	1
L1748pa ANSGA-UV A137Bpa ANSGA-UV	1	0
L1748pa ANSGA-UV A137Bpa ANSGA +UV	0	1
L1748pa ANSGA+UV A137Bpa - UV	1	0
L1748pa ANSGA+UV A137Bpa+ UV	8,07E-06	1
L1748pa ANSGA+UV L1748pa -UV	0,20455	0
L1748pa ANSGA+UV L1748pa +UV	0,97732	0
L1748pa ANSGA+UV A254Azi-UV	0,95828	0
L1748pa ANSGA+UV A254Azi+UV	0	1
L1748pa ANSGA+UV A137Bpa V102A -UV	0,30062	0
L1748pa ANSGA+UV A137Bpa V102A+UV	0,01536	1
L1748pa ANSGA+UV L1748pa V102A-UV	1	0
L1748pa ANSGA+UV L1748pa V102A+UV	1	0
L1748pa ANSGA+UV A254Azi V102A-UV	0,58934	0
L1748pa ANSGA+UV A254Azi V102A+UV	0,68535	0
L1748pa ANSGA+UV A137Bpa H134A-UV	0,00379	1
L1748pa ANSGA+UV A137Bpa H134A+ UV	0,00451	1
L1748pa ANSGA+UV L1748pa H134A-UV	1	0
L1748pa ANSGA+UV L1748pa H134A+UV	1	0
L1748pa ANSGA+UV A254Azi H134A-UV	0,07172	0
L1748pa ANSGA+UV A254Azi H134A+UV	0,02899	1
L1748pa ANSGA+UV A137Bpa V181K-UV	0,00508	1
L1748pa ANSGA+UV A137Bpa V181K+UV	0,01063	1
L1748pa ANSGA+UV L1748pa V181K-UV	1	0
L1748pa ANSGA+UV L1748pa V181K+UV	0,15251	0
L1748pa ANSGA+UV A254Azi V181K-UV	0,15794	0
L1748pa ANSGA+UV A254Azi V181K+UV	0,03933	1
L1748pa ANSGA+UV A137Bpa P245L-UV	0,07762	0
L1748pa ANSGA+UV A137Bpa P245L+UV	0,9999	0
L1748pa ANSGA+UV L1748pa P245L-UV	0,99421	0
L1748pa ANSGA+UV L1748pa P245L+UV	0,99999	0
L1748pa ANSGA+UV A254Azi P245L-UV	0,02559	1
L1748pa ANSGA+UV A254Azi P245L+UV	0,26435	0
L1748pa ANSGA+UV A137Bpa ANSGA-UV	0,15007	0
L1748pa ANSGA+UV A137Bpa ANSGA +UV	4,90E-04	1
L1748pa ANSGA+UV L1748pa ANSGA-UV	0,03993	1
A254Azi ANSGA-UV A137Bpa - UV	1	0
A254Azi ANSGA-UV A137Bpa+ UV	0,03859	1
A254Azi ANSGA-UV L1748pa -UV	0,68615	0
A254Azi ANSGA-UV L1748pa +UV	1	0
A254Azi ANSGA-UV A254Azi-UV	0,91146	0
A254Azi ANSGA-UV A254Azi+UV	0,00167	1
A254Azi ANSGA-UV A137Bpa V102A -UV	0,74663	0
A254Azi ANSGA-UV A137Bpa V102A+UV	0,54756	0
A254Azi ANSGA-UV L1748pa V102A-UV	0,97559	0
A254Azi ANSGA-UV L1748pa V102A+UV	0,97437	0
A254Azi ANSGA-UV A254Azi V102A-UV	1	0
A254Azi ANSGA-UV A254Azi V102A+UV	1	0
A254Azi ANSGA-UV A137Bpa H134A-UV	0,4516	0
A254Azi ANSGA-UV A137Bpa H134A+ UV	0,46329	0
A254Azi ANSGA-UV L1748pa H134A-UV	0,99797	0
A254Azi ANSGA-UV L1748pa H134A+UV	0,99988	0
A254Azi ANSGA-UV A254Azi H134A-UV	0,65381	0
A254Azi ANSGA-UV A254Azi H134A+UV	0,59132	0
A254Azi ANSGA-UV A137Bpa V181K-UV	0,47133	0
A254Azi ANSGA-UV A137Bpa V181K+UV	0,52366	0
A254Azi ANSGA-UV L1748pa V181K-UV	1	0
A254Azi ANSGA-UV L1748pa V181K+UV	1	0
A254Azi ANSGA-UV A254Azi V181K-UV	1	0
A254Azi ANSGA-UV A254Azi V181K+UV	1	0
A254Azi ANSGA-UV A137Bpa P245L-UV	0,62616	0
A254Azi ANSGA-UV A137Bpa P245L+UV	0,96183	0
A254Azi ANSGA-UV L1748pa P245L-UV	0,92649	0
A254Azi ANSGA-UV L1748pa P245L+UV	1	0
A254Azi ANSGA-UV A254Azi P245L-UV	0,58415	0
A254Azi ANSGA-UV A254Azi P245L+UV	1	0
A254Azi ANSGA-UV A137Bpa ANSGA-UV	0,69502	0
A254Azi ANSGA-UV A137Bpa ANSGA +UV	1	0

8b	Welch-ANOVA	0	F(9, 38.52)=62,85	A254Azi ANSGA-UV L174Bpa ANSGA-UV	0,61043	0
				A254Azi ANSGA-UV L174Bpa ANSGA+UV	0,99959	0
				A254Azi ANSGA+UV A137Bpa - UV	0,00502	1
				A254Azi ANSGA+UV A137Bpa+ UV	1	0
				A254Azi ANSGA+UV L174Bpa -UV	1,92E-04	1
				A254Azi ANSGA+UV L174Bpa +UV	0,13377	0
				A254Azi ANSGA+UV A254Azi-UV	4,26E-04	1
				A254Azi ANSGA+UV A254Azi+UV	1	0
				A254Azi ANSGA+UV A137Bpa V102A -UV	2,40E-04	1
				A254Azi ANSGA+UV A137Bpa V102A+UV	1,52E-04	1
				A254Azi ANSGA+UV L174Bpa V102A-UV	4,96E-04	1
				A254Azi ANSGA+UV L174Bpa V102A+UV	4,90E-04	1
				A254Azi ANSGA+UV A254Azi V102A-UV	0,02179	1
				A254Azi ANSGA+UV A254Azi V102A+UV	0,01926	1
				A254Azi ANSGA+UV A137Bpa H134A-UV	1,18E-04	1
				A254Azi ANSGA+UV A137Bpa H134A+ UV	1,22E-04	1
				A254Azi ANSGA+UV L174Bpa H134A-UV	0,00108	1
				A254Azi ANSGA+UV L174Bpa H134A+UV	0,00179	1
				A254Azi ANSGA+UV A254Azi H134A-UV	1,97E-04	1
				A254Azi ANSGA+UV A254Azi H134A+UV	1,69E-04	1
				A254Azi ANSGA+UV A137Bpa V181K-UV	1,25E-04	1
				A254Azi ANSGA+UV A137Bpa V181K+UV	1,44E-04	1
				A254Azi ANSGA+UV L174Bpa V181K-UV	0,00503	1
				A254Azi ANSGA+UV L174Bpa V181K+UV	0,04377	1
				A254Azi ANSGA+UV A254Azi V181K-UV	0,05432	0
				A254Azi ANSGA+UV A254Azi V181K+UV	0,10886	0
				A254Azi ANSGA+UV A137Bpa P245L-UV	1,71E-04	1
				A254Azi ANSGA+UV A137Bpa P245L+UV	5,18E-04	1
				A254Azi ANSGA+UV L174Bpa P245L-UV	4,07E-04	1
				A254Azi ANSGA+UV L174Bpa P245L+UV	0,00453	1
				A254Azi ANSGA+UV A254Azi P245L-UV	1,67E-04	1
				A254Azi ANSGA+UV A254Azi P245L+UV	0,0365	1
				A254Azi ANSGA+UV A137Bpa ANSGA-UV	2,12E-04	1
				A254Azi ANSGA+UV A137Bpa ANSGA +UV	0,12753	0
				A254Azi ANSGA+UV L174Bpa ANSGA-UV	1,76E-04	1
				A254Azi ANSGA+UV L174Bpa ANSGA+UV	0,00153	1
				A254Azi ANSGA+UV A254Azi ANSGA-UV	0,12261	0
8d	Welch-ANOVA	3,54E-07	F(9, 23.63)=12.79	A137Bpa WT	0,8885	0
				A137Bpa+S1-UV WT	0,20317	0
				A137Bpa+S1-UV A137Bpa	0,14833	0
				A137Bpa+S1+UV WT	0,04162	1
				A137Bpa+S1+UV A137Bpa	0,00172	1
				A137Bpa+S1+UV A137Bpa+S1-UV	1,33E-04	1
				L174Bpa WT	8,82E-05	1
				L174Bpa A137Bpa	1,33E-08	1
				L174Bpa A137Bpa+S1-UV	2,05E-06	1
				L174Bpa A137Bpa+S1+UV	2,59E-06	1
				L174Bpa+S1-UV WT	0,65268	0
				L174Bpa+S1-UV A137Bpa	0,96232	0
				L174Bpa+S1-UV A137Bpa+S1-UV	0,99888	0
				L174Bpa+S1-UV A137Bpa+S1+UV	5,50E-04	1
				L174Bpa+S1-UV L174Bpa	8,46E-04	1
				L174Bpa+S1+UV WT	1	0
				L174Bpa+S1+UV A137Bpa	0,77059	0
				L174Bpa+S1+UV A137Bpa+S1-UV	0,15352	0
				L174Bpa+S1+UV A137Bpa+S1+UV	0,06845	0
				L1748pa+S1+UV L1748pa	2,26E-04	1
				L1748pa+S1+UV L1748pa+S1-UV	0,5293	0
				A254Azi WT	0,00617	1
				A254Azi A137Bpa	0,00868	1
				A254Azi A137Bpa+S1-UV	0,23418	0
				A254Azi A137Bpa+S1+UV	3,18E-06	1
				A254Azi L174Bpa	0,40665	0
				A254Azi L174Bpa+S1-UV	0,17156	0
				A254Azi L174Bpa+S1+UV	0,00517	1
				A254Azi+S1-UV WT	0,75988	0
				A254Azi+S1-UV A137Bpa	0,29727	0
				A254Azi+S1-UV A137Bpa+S1-UV	0,10194	0
				A254Azi+S1-UV A137Bpa+S1+UV	0,99942	0
				A254Azi+S1-UV L174Bpa	0,00335	1
				A254Azi+S1-UV L174Bpa+S1-UV	0,18572	0
				A254Azi+S1-UV L174Bpa+S1+UV	0,82625	0
				A254Azi+S1-UV A254Azi	0,01341	1
				A254Azi+S1+UV WT	0,80536	0
				A254Azi+S1+UV A137Bpa	0,04462	1
				A254Azi+S1+UV A137Bpa+S1-UV	0,0029	1
				A254Azi+S1+UV A137Bpa+S1+UV	0,51662	0
				A254Azi+S1+UV L174Bpa	6,17E-06	1
				A254Azi+S1+UV L174Bpa+S1-UV	0,0278	1
				A254Azi+S1+UV L174Bpa+S1+UV	0,89913	0
				A254Azi+S1+UV A254Azi	8,34E-05	1
				A254Azi+S1+UV A254Azi+S1-UV	0,99867	0
8d	Welch-ANOVA	3,54E-07	F(9, 23.63)=12.79	A137Bpa WT	1	0
				A137Bpa+S1-UV WT	0,37152	0
				A137Bpa+S1-UV A137Bpa	0,35916	0
				A137Bpa+S1+UV WT	0,08956	0
				A137Bpa+S1+UV A137Bpa	0,07984	0
				A137Bpa+S1+UV A137Bpa+S1-UV	0,99501	0
				L174Bpa WT	0,10286	0
				L174Bpa A137Bpa	0,10398	0
				L174Bpa A137Bpa+S1-UV	0,0336	1
				L174Bpa A137Bpa+S1+UV	0,04955	1
				L174Bpa+S1-UV WT	0,99391	0
				L174Bpa+S1-UV A137Bpa	0,98861	0
				L174Bpa+S1-UV A137Bpa+S1-UV	0,61204	0
				L174Bpa+S1-UV A137Bpa+S1+UV	0,56872	0
				L174Bpa+S1-UV L174Bpa	0,08557	0
				L174Bpa+S1+UV WT	0,41774	0
				L174Bpa+S1+UV A137Bpa	0,40688	0
				L174Bpa+S1+UV A137Bpa+S1-UV	0,15141	0
				L174Bpa+S1+UV A137Bpa+S1+UV	0,00877	1
				L1748pa+S1+UV L1748pa	0,15339	0
				L1748pa+S1+UV L1748pa+S1-UV	0,37336	0
				A254Azi WT	0,00284	1
				A254Azi A137Bpa	0,00291	1
				A254Azi A137Bpa+S1-UV	4,88E-04	1
				A254Azi A137Bpa+S1+UV	0,00127	1
				A254Azi L174Bpa	0,82509	0
				A254Azi L174Bpa+S1-UV	0,00205	1
				A254Azi L174Bpa+S1+UV	0,00397	1
				A254Azi+S1-UV WT	0,05734	0
				A254Azi+S1-UV A137Bpa	0,05762	0
				A254Azi+S1-UV A137Bpa+S1-UV	0,03628	1

				A254Azi+S1-UV A137Bpa+S1+UV A254Azi+S1-UV L174Bpa A254Azi+S1-UV L174Bpa+S1-UV A254Azi+S1-UV L174Bpa+S1+UV A254Azi+S1-UV A254Azi A254Azi+S1+UV WT A254Azi+S1+UV A137Bpa A254Azi+S1+UV A137Bpa+S1-UV A254Azi+S1+UV A137Bpa+S1+UV A254Azi+S1+UV L174Bpa A254Azi+S1+UV L174Bpa+S1-UV A254Azi+S1+UV L174Bpa+S1+UV A254Azi+S1+UV A254Azi A254Azi+S1+UV A254Azi+S1-UV	0,04349 0,38514 0,05308 0,06642 0,80961 0,06518 0,06595 0,02106 0,03299 1 0,05401 0,09412 0,91204 0,445	0 0 0 0 0 0 0 1 1 0 0 0 0 0
8f	Welch-ANOVA	1,27E-05	F(7, 15.82)=13.41	WTB WT E 137 E WT E 137 E WTB 137 B WT E 137 B WTB 137 B 137 E WT Na E WT E WT Na E WTB WT Na E 137 E WT Na E 137 B WT Na B WT E WT Na B WTB WT Na B 137 E WT Na B 137 B WT Na B WT Na E 137 Na E WT E 137 Na E WTB 137 Na E 137 E 137 Na E 137 B 137 Na E WT Na E 137 Na E WT Na B 137 Na B WT E 137 Na B WTB 137 Na B 137 E 137 Na B 137 B 137 Na B WT Na E 137 Na B WT Na B 137 Na B 137 Na E	0,9519 0,15884 0,69871 0,99748 0,99884 0,30689 0,01099 0,18692 0,93575 0,03036 0,00225 0,05663 0,31372 0,008 0,27488 0,12882 0,52746 0,99963 0,23408 0,99965 0,69888 0,00117 0,03385 0,15178 0,00456 0,0596 0,88042 0,43898	0 0 0 0 0 0 1 0 0 1 1 0 0 1 0 0 0 0 0 0 0 1 1 1 1 0 0 0
8h	Welch-ANOVA	2,20E-07	F(7, 12.19)=39.98	WT+CM4620 WT A137Bpa WT A137Bpa WT+CM4620 A137Bpa+CM4620 WT A137Bpa+CM4620 WT+CM4620 A137Bpa+CM4620 A137Bpa L174Bpa WT L174Bpa WT+CM4620 L174Bpa A137Bpa L174Bpa A137Bpa+CM4620 L174Bpa+CM4620 WT L174Bpa+CM4620 WT+CM4620 L174Bpa+CM4620 A137Bpa L174Bpa+CM4620 A137Bpa+CM4620 L174Bpa+CM4620 L174Bpa A254Azi WT A254Azi WT+CM4620 A254Azi A137Bpa A254Azi A137Bpa+CM4620 A254Azi L174Bpa A254Azi L174Bpa+CM4620 A254Azi+CM4620 WT A254Azi+CM4620 WT+CM4620 A254Azi+CM4620 A137Bpa A254Azi+CM4620 A137Bpa+CM4620 A254Azi+CM4620 L174Bpa A254Azi+CM4620 L174Bpa+CM4620 A254Azi+CM4620 A254Azi	0,00174 0,88806 0,01933 3,35E-04 0,28743 0,03808 0,00237 0,02662 0,08042 0,68854 0,00283 0,9493 0,01796 0,1934 0,02258 0,07848 0,02604 0,11453 0,02809 0,03427 0,02569 5,02E-04 0,99587 0,02071 0,51937 0,04124 0,87879 0,02589	1 0 1 1 0 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 0 1
9b	Mann-Whitney test	5,32662E-05 0,00288 0,20804		A137Bpa after UV-light - A137Bpa from before UV-light A254Azi after UV-light - A254Azi from before UV-light A137Bpa after UV-light A254Azi after UV-light		1 1 0
9c	Mann-Whitney test	0,77172		A137Bpa A254Azi		0
9e	Mann-Whitney test	4,11353E-05 0,0005828 0,0711500		A137Bpa after UV-light - A137Bpa from before UV-light A254Azi after UV-light - A254Azi from before UV-light A137Bpa after UV-light A254Azi after UV-light		1 1 0
9f	Mann-Whitney test	0,79221		A137Bpa A254Azi		0
9h	Mann-Whitney test	0,18535 0,80478 2,72E-06 1,46E-01 2,33E-08 0,01461 8,57E-10 0,03788 0,65761 0,00588 3,70E-04 0,0025		O1+UV start O1+UV end O1-UV start O1-UV end A137Bpa with UV Start-A137Bpa with UV End A137Bpa without UV Start-A137Bpa without UV End L174Bpa with UV Start-L174Bpa with UV End L174Bpa without UV Start-L174Bpa without UV End A254Azi with UV Start-A254Azi with UV End A254Azi without UV Start-A254Azi without UV End O1 + UV end O1-UV end A137Bpa +UV end A137Bpa -UV end L174Bpa+UV end L174Bpa-UV end A254Azi+UV end A254Azi-UV end		0 0 1 1 1 1 1 1 1 1 1 1 1
9k	Mann-Whitney test	0,26567 0,00245 7,65E-04 6,93E-06		endo start endo end O1 start O1 end 137 start 137 end 254 start 254 end		0 1 1 1
S1a - 0mM and 2mM Ca2+ solution	Welch-ANOVA	0	F(41, 371.32)=10.02	A235Azi 0 A235Azi 2 S239Azi 2 A235Azi 2 S239Azi 2 A235Azi 0 S239Azi 0 A235Azi 2 S239Azi 0 A235Azi 0 S239Azi 0 S239Azi 2 M243Azi 2 A235Azi 2	0,99997 0,99987 1 0,84303 1 1 1	0 0 0 0 0 0 0

	M243Azi 2 A235Azi 0	0,99911	0
	M243Azi 2 S239Azi 2	0,99794	0
	M243Azi 2 S239Azi 0	0,98521	0
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L130Azi 2 P245Azi 0	0,99994	0
L130Azi 2 F250Azi 2	0,7971	0
L130Azi 2 F250Azi 0	1	0
L130Azi 2 A254Azi 2	0,13276	0
L130Azi 2 A254Azi 0	0,99976	0
L130Azi 2 L194Azi 2	1	0
L130Azi 2 L194Azi 0	1	0
L130Azi 2 V191Azi 2	0,05068	0
L130Azi 2 V191Azi 0	1	0
L130Azi 2 L188Azi 2	0,00339	1
L130Azi 2 L188Azi 0	1	0
L130Azi 2 F187Azi 2	1	0
L130Azi 2 F187Azi 0	1	0
L130Azi 2 L185Azi 2	1	0
L130Azi 2 L185Azi 0	1	0
L130Azi 2 V181Azi 2	0,96731	0
L130Azi 2 V181Azi 0	1	0
L130Azi 2 S179Azi 2	0,7848	0
L130Azi 2 S179Azi 0	0,99988	0
L130Azi 2 W176Azi 2	1	0
L130Azi 2 W176Azi 0	1	0
L130Azi 2 L174Azi 2	1	0
L130Azi 2 L174Azi 0	1	0
L130Azi 0 A235Azi 2	0,00202	1
L130Azi 0 A235Azi 0	0,34548	0
L130Azi 0 S239Azi 2	0,99914	0
L130Azi 0 S239Azi 0	0,35938	0
L130Azi 0 M243Azi 2	0,7734	0
L130Azi 0 M243Azi 0	0,33596	0
L130Azi 0 P245Azi 2	0,878	0
L130Azi 0 P245Azi 0	1	0
L130Azi 0 F250Azi 2	0,68586	0
L130Azi 0 F250Azi 0	1	0

			L130Azi 0 A254Azi 2	0,04309	1
			L130Azi 0 A254Azi 0	1	0
			L130Azi 0 L194Azi 2	1	0
			L130Azi 0 L194Azi 0	0,74373	0
			L130Azi 0 V191Azi 2	0,03256	1
			L130Azi 0 V191Azi 0	0,90426	0
			L130Azi 0 L188Azi 2	0,00173	1
			L130Azi 0 L188Azi 0	0,89061	0
			L130Azi 0 F187Azi 2	1	0
			L130Azi 0 F187Azi 0	0,9993	0
			L130Azi 0 L185Azi 2	0,46138	0
			L130Azi 0 L185Azi 0	0,99799	0
			L130Azi 0 V181Azi 2	0,56397	0
			L130Azi 0 V181Azi 0	0,56693	0
			L130Azi 0 S179Azi 2	2,47E-05	1
			L130Azi 0 S179Azi 0	0,00772	1
			L130Azi 0 W176Azi 2	0,97908	0
			L130Azi 0 W176Azi 0	0,9793	0
			L130Azi 0 L174Azi 2	0,96717	0
			L130Azi 0 L174Azi 0	0,96519	0
			L130Azi 0 L130Azi 2	0,99016	0
			H134Azi 2 A235Azi 2	0,93991	0
			H134Azi 2 A235Azi 0	1	0
			H134Azi 2 S239Azi 2	1	0
			H134Azi 2 S239Azi 0	1	0
			H134Azi 2 M243Azi 2	0,99414	0
			H134Azi 2 M243Azi 0	1	0
			H134Azi 2 P245Azi 2	0,932	0
			H134Azi 2 P245Azi 0	0,00431	1
			H134Azi 2 F250Azi 2	0,87097	0
			H134Azi 2 F250Azi 0	1	0
			H134Azi 2 A254Azi 2	0,25793	0
			H134Azi 2 A254Azi 0	3,08E-04	1
			H134Azi 2 L194Azi 2	0,17002	0
			H134Azi 2 L194Azi 0	1	0
			H134Azi 2 V191Azi 2	0,07159	0
			H134Azi 2 V191Azi 0	1	0
			H134Azi 2 L188Azi 2	0,00581	1
			H134Azi 2 L188Azi 0	0,61504	0
			H134Azi 2 F187Azi 2	0,14613	0
			H134Azi 2 F187Azi 0	0,01515	1
			H134Azi 2 L185Azi 2	0,99995	0
			H134Azi 2 L185Azi 0	1	0
			H134Azi 2 V181Azi 2	0,99944	0
			H134Azi 2 V181Azi 0	0,01241	1
			H134Azi 2 S179Azi 2	0,99984	0
			H134Azi 2 S179Azi 0	1	0
			H134Azi 2 W176Azi 2	0,99993	0
			H134Azi 2 W176Azi 0	1	0
			H134Azi 2 L174Azi 2	0,46814	0
			H134Azi 2 L174Azi 0	1	0
			H134Azi 2 L130Azi 2	0,99993	0
			H134Azi 2 L130Azi 0	1,40E-05	1
			H134Azi 0 A235Azi 2	0,03693	1
			H134Azi 0 A235Azi 0	0,93962	0
			H134Azi 0 S239Azi 2	1	0
			H134Azi 0 S239Azi 0	0,99703	0
			H134Azi 0 M243Azi 2	0,88521	0
			H134Azi 0 M243Azi 0	0,85825	0
			H134Azi 0 P245Azi 2	0,89619	0
			H134Azi 0 P245Azi 0	1	0
			H134Azi 0 F250Azi 2	0,7482	0
			H134Azi 0 F250Azi 0	1	0
			H134Azi 0 A254Azi 2	0,07885	0
			H134Azi 0 A254Azi 0	0,99997	0
			H134Azi 0 L194Azi 2	1	0
			H134Azi 0 L194Azi 0	0,99777	0
			H134Azi 0 V191Azi 2	0,04151	1
			H134Azi 0 V191Azi 0	0,99678	0
			H134Azi 0 L188Azi 2	0,0025	1
			H134Azi 0 L188Azi 0	1	0
			H134Azi 0 F187Azi 2	1	0
			H134Azi 0 F187Azi 0	1	0
			H134Azi 0 L185Azi 2	0,99779	0
			H134Azi 0 L185Azi 0	1	0
			H134Azi 0 V181Azi 2	0,82658	0
			H134Azi 0 V181Azi 0	1	0
			H134Azi 0 S179Azi 2	0,00945	1
			H134Azi 0 S179Azi 0	0,45416	0
			H134Azi 0 W176Azi 2	1	0
			H134Azi 0 W176Azi 0	1	0
			H134Azi 0 L174Azi 2	1	0
			H134Azi 0 L174Azi 0	1	0
			H134Azi 0 L130Azi 2	1	0
			H134Azi 0 L130Azi 0	0,9285	0
			H134Azi 0 H134Azi 2	0,13616	0
			F136Azi 2 A235Azi 2	0,14446	0
			F136Azi 2 A235Azi 0	0,99869	0
			F136Azi 2 S239Azi 2	1	0
			F136Azi 2 S239Azi 0	1	0
			F136Azi 2 M243Azi 2	0,93404	0
			F136Azi 2 M243Azi 0	0,99002	0
			F136Azi 2 P245Azi 2	0,90656	0
			F136Azi 2 P245Azi 0	0,95772	0
			F136Azi 2 F250Azi 2	0,78414	0
			F136Azi 2 F250Azi 0	1	0
			F136Azi 2 A254Azi 2	0,11107	0
			F136Azi 2 A254Azi 0	0,79345	0
			F136Azi 2 L194Azi 2	0,99993	0
			F136Azi 2 L194Azi 0	1	0
			F136Azi 2 V191Azi 2	0,04807	1
			F136Azi 2 V191Azi 0	0,99992	0
			F136Azi 2 L188Azi 2	0,00313	1
			F136Azi 2 L188Azi 0	1	0
			F136Azi 2 F187Azi 2	0,99984	0
			F136Azi 2 F187Azi 0	0,99942	0
			F136Azi 2 L185Azi 2	1	0
			F136Azi 2 L185Azi 0	1	0
			F136Azi 2 V181Azi 2	0,9289	0
			F136Azi 2 V181Azi 0	0,99995	0
			F136Azi 2 S179Azi 2	0,11787	0
			F136Azi 2 S179Azi 0	0,94387	0
			F136Azi 2 W176Azi 2	1	0
			F136Azi 2 W176Azi 0	1	0
			F136Azi 2 L174Azi 2	1	0
			F136Azi 2 L174Azi 0	1	0
			F136Azi 2 L130Azi 2	1	0

	F136Azi 2 L130Azi 0	0,21351	0
	F136Azi 2 H134Azi 2	0,84183	0
	F136Azi 2 H134Azi 0	1	0
	F136Azi 0 A235Azi 2	0,17168	0
	F136Azi 0 A235Azi 0	0,99934	0
	F136Azi 0 S239Azi 2	1	0
	F136Azi 0 S239Azi 0	1	0
	F136Azi 0 M243Azi 2	0,93799	0
	F136Azi 0 M243Azi 0	0,99437	0
	F136Azi 0 P245Azi 2	0,90738	0
	F136Azi 0 P245Azi 0	0,96767	0
	F136Azi 0 F250Azi 2	0,78714	0
	F136Azi 0 F250Azi 0	1	0
	F136Azi 0 A254Azi 2	0,11471	0
	F136Azi 0 A254Azi 0	0,85124	0
	F136Azi 0 L194Azi 2	0,99993	0
	F136Azi 0 L194Azi 0	1	0
	F136Azi 0 V191Azi 2	0,04868	1
	F136Azi 0 V191Azi 0	0,99995	0
	F136Azi 0 L188Azi 2	0,00319	1
	F136Azi 0 L188Azi 0	1	0
	F136Azi 0 F187Azi 2	0,99983	0
	F136Azi 0 F187Azi 0	0,99954	0
	F136Azi 0 L185Azi 2	1	0
	F136Azi 0 L185Azi 0	1	0
	F136Azi 0 V181Azi 2	0,93656	0
	F136Azi 0 V181Azi 0	0,99996	0
	F136Azi 0 S179Azi 2	0,17016	0
	F136Azi 0 S179Azi 0	0,97025	0
	F136Azi 0 W176Azi 2	1	0
	F136Azi 0 W176Azi 0	1	0
	F136Azi 0 L174Azi 2	1	0
	F136Azi 0 L174Azi 0	1	0
	F136Azi 0 L130Azi 2	1	0
	F136Azi 0 L130Azi 0	0,31726	0
	F136Azi 0 H134Azi 2	0,92289	0
	F136Azi 0 H134Azi 0	1	0
	F136Azi 0 F136Azi 2	1	0
	A137Azi 2 A235Azi 2	0,04554	1
	A137Azi 2 A235Azi 0	0,02336	0
	A137Azi 2 S239Azi 2	0,01982	1
	A137Azi 2 S239Azi 0	0,01678	1
	A137Azi 2 M243Azi 2	0,16444	0
	A137Azi 2 M243Azi 0	0,02222	1
	A137Azi 2 P245Azi 2	1	0
	A137Azi 2 P245Azi 0	0,00884	1
	A137Azi 2 F250Azi 2	0,9999	0
	A137Azi 2 F250Azi 0	0,01353	1
	A137Azi 2 A254Azi 2	0,76089	0
	A137Azi 2 A254Azi 0	0,00879	1
	A137Azi 2 L194Azi 2	0,00934	1
	A137Azi 2 L194Azi 0	0,01918	1
	A137Azi 2 V191Azi 2	1	0
	A137Azi 2 V191Azi 0	0,02986	1
	A137Azi 2 L188Azi 2	1	0
	A137Azi 2 L188Azi 0	0,01146	1
	A137Azi 2 F187Azi 2	0,00909	1
	A137Azi 2 F187Azi 0	0,00963	1
	A137Azi 2 L185Azi 2	0,01488	1
	A137Azi 2 L185Azi 0	0,01403	1
	A137Azi 2 V181Azi 2	0,07571	0
	A137Azi 2 V181Azi 0	0,01014	1
	A137Azi 2 S179Azi 2	0,02906	1
	A137Azi 2 S179Azi 0	0,02151	1
	A137Azi 2 W176Azi 2	0,01344	1
	A137Azi 2 W176Azi 0	0,0189	1
	A137Azi 2 L174Azi 2	0,01103	1
	A137Azi 2 L174Azi 0	0,01427	1
	A137Azi 2 L130Azi 2	0,01327	1
	A137Azi 2 L130Azi 0	0,00809	1
	A137Azi 2 H134Azi 2	0,01977	1
	A137Azi 2 H134Azi 0	0,01062	1
	A137Azi 2 F136Azi 2	0,01253	1
	A137Azi 2 F136Azi 0	0,01271	1
	A137Azi 0 A235Azi 2	0,00122	1
	A137Azi 0 A235Azi 0	0,25499	0
	A137Azi 0 S239Azi 2	0,99742	0
	A137Azi 0 S239Azi 0	0,23989	0
	A137Azi 0 M243Azi 2	0,749	0
	A137Azi 0 M243Azi 0	0,2719	0
	A137Azi 0 P245Azi 2	0,87415	0
	A137Azi 0 P245Azi 0	1	0
	A137Azi 0 F250Azi 2	0,67314	0
	A137Azi 0 F250Azi 0	1	0
	A137Azi 0 A254Azi 2	0,03822	1
	A137Azi 0 A254Azi 0	0,99938	0
	A137Azi 0 L194Azi 2	1	0
	A137Azi 0 L194Azi 0	0,64817	0
	A137Azi 0 V191Azi 2	0,03101	1
	A137Azi 0 V191Azi 0	0,86207	0
	A137Azi 0 L188Azi 2	0,00161	1
	A137Azi 0 L188Azi 0	0,71586	0
	A137Azi 0 F187Azi 2	1	0
	A137Azi 0 F187Azi 0	0,9749	0
	A137Azi 0 L185Azi 2	0,36358	0
	A137Azi 0 L185Azi 0	0,99354	0
	A137Azi 0 V181Azi 2	0,51211	0
	A137Azi 0 V181Azi 0	0,25235	0
	A137Azi 0 S179Azi 2	1,02E-05	1
	A137Azi 0 S179Azi 0	0,00367	1
	A137Azi 0 W176Azi 2	0,93863	0
	A137Azi 0 W176Azi 0	0,95735	0
	A137Azi 0 L174Azi 2	0,86678	0
	A137Azi 0 L174Azi 0	0,91486	0
	A137Azi 0 L130Azi 2	0,96285	0
	A137Azi 0 L130Azi 0	1	0
	A137Azi 0 H134Azi 2	4,19E-06	1
	A137Azi 0 H134Azi 0	0,72072	0
	A137Azi 0 F136Azi 2	0,09114	0
	A137Azi 0 F136Azi 0	0,15478	0
	A137Azi 0 A137Azi 2	0,00766	1
	L138Azi 2 A235Azi 2	0,9912	0
	L138Azi 2 A235Azi 0	1	0
	L138Azi 2 S239Azi 2	1	0
	L138Azi 2 S239Azi 0	1	0
	L138Azi 2 M243Azi 2	0,99453	0
	L138Azi 2 M243Azi 0	1	0

			L138Azi 2 P245Azi 2	0,9291	0
			L138Azi 2 P245Azi 0	0,93054	0
			L138Azi 2 F250Azi 2	0,86491	0
			L138Azi 2 F250Azi 0	1	0
			L138Azi 2 A254Azi 2	0,26228	0
			L138Azi 2 A254Azi 0	0,89568	0
			L138Azi 2 L194Azi 2	0,98968	0
			L138Azi 2 L194Azi 0	1	0
			L138Azi 2 V191Azi 2	0,06925	0
			L138Azi 2 V191Azi 0	1	0
			L138Azi 2 L188Azi 2	0,00552	1
			L138Azi 2 L188Azi 0	0,99998	0
			L138Azi 2 F187Azi 2	0,98461	0
			L138Azi 2 F187Azi 0	0,98441	0
			L138Azi 2 L185Azi 2	1	0
			L138Azi 2 L185Azi 0	1	0
			L138Azi 2 V181Azi 2	0,99962	0
			L138Azi 2 V181Azi 0	0,99346	0
			L138Azi 2 S179Azi 2	1	0
			L138Azi 2 S179Azi 0	1	0
			L138Azi 2 W176Azi 2	1	0
			L138Azi 2 W176Azi 0	1	0
			L138Azi 2 L174Azi 2	0,99991	0
			L138Azi 2 L174Azi 0	1	0
			L138Azi 2 L130Azi 2	1	0
			L138Azi 2 L130Azi 0	0,72132	0
			L138Azi 2 H134Azi 2	1	0
			L138Azi 2 H134Azi 0	0,99919	0
			L138Azi 2 F136Azi 2	1	0
			L138Azi 2 F136Azi 0	1	0
			L138Azi 2 A137Azi 2	0,01896	1
			L138Azi 2 A137Azi 0	0,5989	0
			L138Azi 0 A235Azi 2	0,1578	0
			L138Azi 0 A235Azi 0	0,99845	0
			L138Azi 0 S239Azi 2	1	0
			L138Azi 0 S239Azi 0	1	0
			L138Azi 0 M243Azi 2	0,92744	0
			L138Azi 0 M243Azi 0	0,99141	0
			L138Azi 0 P245Azi 2	0,9041	0
			L138Azi 0 P245Azi 0	0,99989	0
			L138Azi 0 F250Azi 2	0,77647	0
			L138Azi 0 F250Azi 0	1	0
			L138Azi 0 A254Azi 2	0,10514	0
			L138Azi 0 A254Azi 0	0,99905	0
			L138Azi 0 L194Azi 2	1	0
			L138Azi 0 L194Azi 0	1	0
			L138Azi 0 V191Azi 2	0,04653	1
			L138Azi 0 V191Azi 0	0,9999	0
			L138Azi 0 L188Azi 2	0,00297	1
			L138Azi 0 L188Azi 0	1	0
			L138Azi 0 F187Azi 2	1	0
			L138Azi 0 F187Azi 0	1	0
			L138Azi 0 L185Azi 2	1	0
			L138Azi 0 L185Azi 0	1	0
			L138Azi 0 V181Azi 2	0,91951	0
			L138Azi 0 V181Azi 0	1	0
			L138Azi 0 S179Azi 2	0,18975	0
			L138Azi 0 S179Azi 0	0,96113	0
			L138Azi 0 W176Azi 2	1	0
			L138Azi 0 W176Azi 0	1	0
			L138Azi 0 L174Azi 2	1	0
			L138Azi 0 L174Azi 0	1	0
			L138Azi 0 L130Azi 2	1	0
			L138Azi 0 L130Azi 0	0,93545	0
			L138Azi 0 H134Azi 2	0,9248	0
			L138Azi 0 H134Azi 0	1	0
			L138Azi 0 F136Azi 2	1	0
			L138Azi 0 F136Azi 0	1	0
			L138Azi 0 A137Azi 2	0,01207	1
			L138Azi 0 A137Azi 0	0,80521	0
			L138Azi 0 L138Azi 2	1	0
			O1 2 A235Azi 2	0,00102	1
			O1 2 A235Azi 0	0,22676	0
			O1 2 S239Azi 2	0,9966	0
			O1 2 S239Azi 0	0,19795	0
			O1 2 M243Azi 2	0,74289	0
			O1 2 M243Azi 0	0,2529	0
			O1 2 P245Azi 2	0,87332	0
			O1 2 P245Azi 0	0,99992	0
			O1 2 F250Azi 2	0,67032	0
			O1 2 F250Azi 0	1	0
			O1 2 A254Azi 2	0,03712	1
			O1 2 A254Azi 0	0,97884	0
			O1 2 L194Azi 2	1	0
			O1 2 L194Azi 0	0,61358	0
			O1 2 V191Azi 2	0,03068	1
			O1 2 V191Azi 0	0,84834	0
			O1 2 L188Azi 2	0,00158	1
			O1 2 L188Azi 0	0,59555	0
			O1 2 F187Azi 2	1	0
			O1 2 F187Azi 0	0,90316	0
			O1 2 L185Azi 2	0,32917	0
			O1 2 L185Azi 0	0,99109	0
			O1 2 V181Azi 2	0,49843	0
			O1 2 V181Azi 0	0,06498	0
			O1 2 S179Azi 2	7,13E-06	1
			O1 2 S179Azi 0	0,00258	1
			O1 2 W176Azi 2	0,91424	0
			O1 2 W176Azi 0	0,94806	0
			O1 2 L174Azi 2	0,777	0
			O1 2 L174Azi 0	0,88798	0
			O1 2 L130Azi 2	0,94447	0
			O1 2 L130Azi 0	1	0
			O1 2 H134Azi 2	1,77E-06	1
			O1 2 H134Azi 0	0,53016	0
			O1 2 F136Azi 2	0,04461	1
			O1 2 F136Azi 0	0,08944	0
			O1 2 A137Azi 2	0,00757	1
			O1 2 A137Azi 0	1	0
			O1 2 L138Azi 2	0,55373	0
			O1 2 L138Azi 0	0,71598	0
			O1 0 A235Azi 2	6,94E-04	1
			O1 0 A235Azi 0	0,17398	0
			O1 0 S239Azi 2	0,99346	0
			O1 0 S239Azi 0	0,13399	0
			O1 0 M243Azi 2	0,72555	0
			O1 0 M243Azi 0	0,21428	0

				O1 0 P245Azi 2	0,87071	0
				O1 0 P245Azi 0	0,99451	0
				O1 0 F250Azi 2	0,6617	0
				O1 0 F250Azi 0	1	0
				O1 0 A254Azi 2	0,03415	1
				O1 0 A254Azi 0	0,67489	0
				O1 0 L194Azi 2	0,99985	0
				O1 0 L194Azi 0	0,53829	0
				O1 0 V191Azi 2	0,02969	1
				O1 0 V191Azi 0	0,81097	0
				O1 0 L188Azi 2	0,00151	1
				O1 0 L188Azi 0	0,39996	0
				O1 0 F187Azi 2	1	0
				O1 0 F187Azi 0	0,66161	0
				O1 0 L185Azi 2	0,26984	0
				O1 0 L185Azi 0	0,9828	0
				O1 0 V181Azi 2	0,46283	0
				O1 0 V181Azi 0	0,00897	1
				O1 0 S179Azi 2	3,53E-06	1
				O1 0 S179Azi 0	0,00135	1
				O1 0 W176Azi 2	0,84748	0
				O1 0 W176Azi 0	0,92064	0
				O1 0 L174Azi 2	0,59097	0
				O1 0 L174Azi 0	0,8179	0
				O1 0 L130Azi 2	0,88746	0
				O1 0 L130Azi 0	0,96694	0
				O1 0 H134Azi 2	5,05E-07	1
				O1 0 H134Azi 0	0,26644	0
				O1 0 F136Azi 2	0,01457	1
				O1 0 F136Azi 0	0,03561	1
				O1 0 A137Azi 2	0,0073	1
				O1 0 A137Azi 0	1	0
				O1 0 L138Azi 2	0,45815	0
				O1 0 L138Azi 0	0,53389	0
				O1 0 O1 2	1	0
S1a - before and after UV	Welch-ANOVA	0	F(43, 371.88)=11.55	O1 after UV O1 before UV	1	0
				O1+STIM1 before TG O1 before UV	1	0
				O1+STIM1 before TG O1 after UV	1	0
				O1+STIM1 after TG O1 before UV	0,03927	1
				O1+STIM1 after TG O1 after UV	0,0423	1
				O1+STIM1 after TG O1+STIM1 before TG	0,04093	1
				L130Azi before UV O1 before UV	1	0
				L130Azi before UV O1 after UV	1	0
				L130Azi before UV O1+STIM1 before TG	0,98969	0
				L130Azi before UV O1+STIM1 after TG	0,03622	1
				L130Azi after UV O1 before UV	0,06265	0
				L130Azi after UV O1 after UV	0,09572	0
				L130Azi after UV O1+STIM1 before TG	0,06301	0
				L130Azi after UV O1+STIM1 after TG	0,20789	0
				L130Azi after UV L130Azi before UV	0,02771	1
				H134Azi before UV O1 before UV	1	0
				H134Azi before UV O1 after UV	1	0
				H134Azi before UV O1+STIM1 before TG	1	0
				H134Azi before UV O1+STIM1 after TG	0,03926	1
				H134Azi before UV L130Azi before UV	0,99996	0
				H134Azi before UV L130Azi after UV	0,04677	1
				H134Azi after UV O1 before UV	1	0
				H134Azi after UV O1 after UV	1	0
				H134Azi after UV O1+STIM1 before TG	0,9954	0
				H134Azi after UV O1+STIM1 after TG	0,03748	1
				H134Azi after UV L130Azi before UV	1	0
				H134Azi after UV L130Azi after UV	0,034	1
				H134Azi after UV H134Azi before UV	1	0
				F136Azi before UV O1 before UV	1	0
				F136Azi before UV O1 after UV	0,99976	0
				F136Azi before UV O1+STIM1 before TG	0,66796	0
				F136Azi before UV O1+STIM1 after TG	0,03593	1
				F136Azi before UV L130Azi before UV	1	0
				F136Azi before UV L130Azi after UV	0,02518	1
				F136Azi before UV H134Azi before UV	0,85717	0
				F136Azi before UV H134Azi after UV	1	0
				F136Azi after UV O1 before UV	1	0
				F136Azi after UV O1 after UV	1	0
				F136Azi after UV O1+STIM1 before TG	1	0
				F136Azi after UV O1+STIM1 after TG	0,03865	1
				F136Azi after UV L130Azi before UV	1	0
				F136Azi after UV L130Azi after UV	0,04201	1
				F136Azi after UV H134Azi before UV	1	0
				F136Azi after UV H134Azi after UV	1	0
				F136Azi after UV F136Azi before UV	0,9815	0
				A137Azi before UV O1 before UV	0,02429	1
				A137Azi before UV O1 after UV	0,03445	1
				A137Azi before UV O1+STIM1 before TG	0,02633	1
				A137Azi before UV O1+STIM1 after TG	0,34934	0
				A137Azi before UV L130Azi before UV	0,01422	1
				A137Azi before UV L130Azi after UV	1	0
				A137Azi before UV H134Azi before UV	0,02115	1
				A137Azi before UV H134Azi after UV	0,0167	1
				A137Azi before UV F136Azi before UV	0,01343	1
				A137Azi before UV F136Azi after UV	0,01953	1
				A137Azi after UV O1 before UV	0,04644	1
				A137Azi after UV O1 after UV	0,06548	0
				A137Azi after UV O1+STIM1 before TG	0,04952	1
				A137Azi after UV O1+STIM1 after TG	0,29227	0
				A137Azi after UV L130Azi before UV	0,02671	1
				A137Azi after UV L130Azi after UV	1	0
				A137Azi after UV H134Azi before UV	0,03972	1
				A137Azi after UV H134Azi after UV	0,03134	1
				A137Azi after UV F136Azi before UV	0,02514	1
				A137Azi after UV F136Azi after UV	0,03667	1
				A137Azi after UV A137Azi before UV	1	0
				L138Azi before UV O1 before UV	1	0
				L138Azi before UV O1 after UV	1	0
				L138Azi before UV O1+STIM1 before TG	1	0
				L138Azi before UV O1+STIM1 after TG	0,03867	1
				L138Azi before UV L130Azi before UV	1	0
				L138Azi before UV L130Azi after UV	0,04474	1
				L138Azi before UV H134Azi before UV	1	0
				L138Azi before UV H134Azi after UV	1	0
				L138Azi before UV F136Azi before UV	1	0
				L138Azi before UV F136Azi after UV	1	0
				L138Azi before UV A137Azi before UV	0,02009	1
				L138Azi before UV A137Azi after UV	0,03788	1
				L138Azi after UV O1 before UV	0,96767	0
				L138Azi after UV O1 after UV	0,99834	0

L138Azi after UV O1+STIM1 before TG	0,88137	0
L138Azi after UV O1+STIM1 after TG	0,05715	0
L138Azi after UV L130Azi before UV	0,27819	0
L138Azi after UV L130Azi after UV	0,47322	0
L138Azi after UV H134Azi before UV	0,63144	0
L138Azi after UV H134Azi after UV	0,36288	0
L138Azi after UV F136Azi before UV	0,17844	0
L138Azi after UV F136Azi after UV	0,53488	0
L138Azi after UV A137Azi before UV	0,14753	0
L138Azi after UV A137Azi after UV	0,26325	0
L138Azi after UV L138Azi before UV	0,69032	0
L194Azi before UV O1 before UV	1	0
L194Azi before UV O1 after UV	0,9823	0
L194Azi before UV O1+STIM1 before TG	0,17263	0
L194Azi before UV O1+STIM1 after TG	0,03392	1
L194Azi before UV L130Azi before UV	1	0
L194Azi before UV L130Azi after UV	0,01682	1
L194Azi before UV H134Azi before UV	0,18	0
L194Azi before UV H134Azi after UV	0,8645	0
L194Azi before UV F136Azi before UV	0,99996	0
L194Azi before UV F136Azi after UV	0,34412	0
L194Azi before UV A137Azi before UV	0,01002	1
L194Azi before UV A137Azi after UV	0,01869	1
L194Azi before UV L138Azi before UV	0,9919	0
L194Azi before UV L138Azi after UV	0,06307	0
L194Azi after UV O1 before UV	0,7635	0
L194Azi after UV O1 after UV	0,93159	0
L194Azi after UV O1+STIM1 before TG	0,4998	0
L194Azi after UV O1+STIM1 after TG	0,06183	0
L194Azi after UV L130Azi before UV	0,11762	0
L194Azi after UV L130Azi after UV	0,61625	0
L194Azi after UV H134Azi before UV	0,28761	0
L194Azi after UV H134Azi after UV	0,15686	0
L194Azi after UV F136Azi before UV	0,08415	0
L194Azi after UV F136Azi after UV	0,23532	0
L194Azi after UV A137Azi before UV	0,20474	0
L194Azi after UV A137Azi after UV	0,35234	0
L194Azi after UV L138Azi before UV	0,32528	0
L194Azi after UV L138Azi after UV	1	0
L194Azi after UV L194Azi before UV	0,03673	1
V191Azi before UV O1 before UV	0,0862	0
V191Azi before UV O1 after UV	0,11558	0
V191Azi before UV O1+STIM1 before TG	0,09183	0
V191Azi before UV O1+STIM1 after TG	0,32503	0
V191Azi before UV L130Azi before UV	0,05398	0
V191Azi before UV L130Azi after UV	1	0
V191Azi before UV H134Azi before UV	0,07605	0
V191Azi before UV H134Azi after UV	0,06199	0
V191Azi before UV F136Azi before UV	0,05121	0
V191Azi before UV F136Azi after UV	0,071	0
V191Azi before UV A137Azi before UV	1	0
V191Azi before UV A137Azi after UV	1	0
V191Azi before UV L138Azi before UV	0,07295	0
V191Azi before UV L138Azi after UV	0,36277	0
V191Azi before UV L194Azi before UV	0,03956	1
V191Azi before UV L194Azi after UV	0,45726	0
V191Azi after UV O1 before UV	0,9839	0
V191Azi after UV O1 after UV	0,99984	0
V191Azi after UV O1+STIM1 before TG	0,59813	0
V191Azi after UV O1+STIM1 after TG	0,05075	0
V191Azi after UV L130Azi before UV	0,01896	1
V191Azi after UV L130Azi after UV	0,23381	0
V191Azi after UV H134Azi before UV	0,1183	0
V191Azi after UV H134Azi after UV	0,01906	1
V191Azi after UV F136Azi before UV	0,00271	1
V191Azi after UV F136Azi after UV	0,06394	0
V191Azi after UV A137Azi before UV	0,07623	0
V191Azi after UV A137Azi after UV	0,14066	0
V191Azi after UV L138Azi before UV	0,34384	0
V191Azi after UV L138Azi after UV	1	0
V191Azi after UV L194Azi before UV	3,31E-04	1
V191Azi after UV L194Azi after UV	0,99999	0
V191Azi after UV V191Azi before UV	0,22043	0
L188Azi before UV O1 before UV	0,00796	1
L188Azi before UV O1 after UV	0,01273	1
L188Azi before UV O1+STIM1 before TG	0,00845	1
L188Azi before UV O1+STIM1 after TG	0,26287	0
L188Azi before UV L130Azi before UV	0,00365	1
L188Azi before UV L130Azi after UV	1	0
L188Azi before UV H134Azi before UV	0,00625	1
L188Azi before UV H134Azi after UV	0,00453	1
L188Azi before UV F136Azi before UV	0,00337	1
L188Azi before UV F136Azi after UV	0,0056	1
L188Azi before UV A137Azi before UV	1	0
L188Azi before UV A137Azi after UV	1	0
L188Azi before UV L138Azi before UV	0,00586	1
L188Azi before UV L138Azi after UV	0,09736	0
L188Azi before UV L194Azi before UV	0,00227	1
L188Azi before UV L194Azi after UV	0,15338	0
L188Azi before UV V191Azi before UV	1	0
L188Azi before UV V191Azi after UV	0,03686	1
L188Azi after UV O1 before UV	0,86762	0
L188Azi after UV O1 after UV	0,98576	0
L188Azi after UV O1+STIM1 before TG	0,14957	0
L188Azi after UV O1+STIM1 after TG	0,05373	0
L188Azi after UV L130Azi before UV	0,00155	1
L188Azi after UV L130Azi after UV	0,30981	0
L188Azi after UV H134Azi before UV	0,01256	1
L188Azi after UV H134Azi after UV	0,00152	1
L188Azi after UV F136Azi before UV	1,92E-04	1
L188Azi after UV F136Azi after UV	0,00599	1
L188Azi after UV A137Azi before UV	0,09897	0
L188Azi after UV A137Azi after UV	0,18022	0
L188Azi after UV L138Azi before UV	0,06443	0
L188Azi after UV L138Azi after UV	1	0
L188Azi after UV L194Azi before UV	2,17E-05	1
L188Azi after UV L194Azi after UV	1	0
L188Azi after UV V191Azi before UV	0,27016	0
L188Azi after UV V191Azi after UV	1	0
L188Azi after UV L188Azi before UV	0,05295	0
F187Azi before UV O1 before UV	1	0
F187Azi before UV O1 after UV	0,97771	0
F187Azi before UV O1+STIM1 before TG	0,15212	0
F187Azi before UV O1+STIM1 after TG	0,03373	1
F187Azi before UV L130Azi before UV	1	0
F187Azi before UV L130Azi after UV	0,01621	1
F187Azi before UV H134Azi before UV	0,15528	0

	F187Azi before UV H134Azi after UV	0,83938	0
	F187Azi before UV F136Azi before UV	0,99989	0
	F187Azi before UV F136Azi after UV	0,3091	0
	F187Azi before UV A137Azi before UV	0,00975	1
	F187Azi before UV A137Azi after UV	0,01818	1
	F187Azi before UV L138Azi before UV	0,98768	0
	F187Azi before UV L138Azi after UV	0,05747	0
	F187Azi before UV L194Azi before UV	1	0
	F187Azi before UV L194Azi after UV	0,03406	1
	F187Azi before UV V191Azi before UV	0,03862	1
	F187Azi before UV V191Azi after UV	2,64E-04	1
	F187Azi before UV L188Azi before UV	0,00219	1
	F187Azi before UV L188Azi after UV	1,65E-05	1
	F187Azi after UV O1 before UV	0,00833	1
	F187Azi after UV O1 after UV	0,00985	1
	F187Azi after UV O1+STIM1 before TG	0,00902	1
	F187Azi after UV O1+STIM1 after TG	1	0
	F187Azi after UV L130Azi before UV	0,00682	1
	F187Azi after UV L130Azi after UV	0,32533	0
	F187Azi after UV H134Azi before UV	0,00819	1
	F187Azi after UV H134Azi after UV	0,00736	1
	F187Azi after UV F136Azi before UV	0,00668	1
	F187Azi after UV F136Azi after UV	0,0079	1
	F187Azi after UV A137Azi before UV	0,69717	0
	F187Azi after UV A137Azi after UV	0,56098	0
	F187Azi after UV L138Azi before UV	0,00794	1
	F187Azi after UV L138Azi after UV	0,01964	1
	F187Azi after UV L194Azi before UV	0,00585	1
	F187Azi after UV L194Azi after UV	0,02346	1
	F187Azi after UV V191Azi before UV	0,65307	0
	F187Azi after UV V191Azi after UV	0,01478	1
	F187Azi after UV L188Azi before UV	0,46685	0
	F187Azi after UV L188Azi after UV	0,01682	1
	F187Azi after UV F187Azi before UV	0,00578	1
	L185Azi before UV O1 before UV	1	0
	L185Azi before UV O1 after UV	1	0
	L185Azi before UV O1+STIM1 before TG	0,99291	0
	L185Azi before UV O1+STIM1 after TG	0,0371	1
	L185Azi before UV L130Azi before UV	1	0
	L185Azi before UV L130Azi after UV	0,03209	1
	L185Azi before UV H134Azi before UV	0,99997	0
	L185Azi before UV H134Azi after UV	1	0
	L185Azi before UV F136Azi before UV	1	0
	L185Azi before UV F136Azi after UV	1	0
	L185Azi before UV A137Azi before UV	0,01594	1
	L185Azi before UV A137Azi after UV	0,02992	1
	L185Azi before UV L138Azi before UV	1	0
	L185Azi before UV L138Azi after UV	0,34442	0
	L185Azi before UV L194Azi before UV	0,98603	0
	L185Azi before UV L194Azi after UV	0,14777	0
	L185Azi before UV V191Azi before UV	0,05955	0
	L185Azi before UV V191Azi after UV	0,02881	1
	L185Azi before UV L188Azi before UV	0,00426	1
	L185Azi before UV L188Azi after UV	0,00305	1
	L185Azi before UV F187Azi before UV	0,98051	0
	L185Azi before UV F187Azi after UV	0,0072	1
	L185Azi after UV O1 before UV	1	0
	L185Azi after UV O1 after UV	1	0
	L185Azi after UV O1+STIM1 before TG	1	0
	L185Azi after UV O1+STIM1 after TG	0,04263	1
	L185Azi after UV L130Azi before UV	0,98865	0
	L185Azi after UV L130Azi after UV	0,08994	0
	L185Azi after UV H134Azi before UV	1	0
	L185Azi after UV H134Azi after UV	0,99618	0
	L185Azi after UV F136Azi before UV	0,9266	0
	L185Azi after UV F136Azi after UV	0,99994	0
	L185Azi after UV A137Azi before UV	0,0338	1
	L185Azi after UV A137Azi after UV	0,06383	0
	L185Azi after UV L138Azi before UV	1	0
	L185Azi after UV L138Azi after UV	0,99302	0
	L185Azi after UV L194Azi before UV	0,68845	0
	L185Azi after UV L194Azi after UV	0,84554	0
	L185Azi after UV V191Azi before UV	0,11356	0
	L185Azi after UV V191Azi after UV	0,99392	0
	L185Azi after UV L188Azi before UV	0,01214	1
	L185Azi after UV L188Azi after UV	0,88051	0
	L185Azi after UV F187Azi before UV	0,66642	0
	L185Azi after UV F187Azi after UV	0,00996	1
	L185Azi after UV L185Azi before UV	0,99517	0
	V181Azi before UV O1 before UV	1	0
	V181Azi before UV O1 after UV	1	0
	V181Azi before UV O1+STIM1 before TG	1	0
	V181Azi before UV O1+STIM1 after TG	0,04958	1
	V181Azi before UV L130Azi before UV	0,97203	0
	V181Azi before UV L130Azi after UV	0,26481	0
	V181Azi before UV H134Azi before UV	0,99959	0
	V181Azi before UV H134Azi after UV	0,99009	0
	V181Azi before UV F136Azi before UV	0,93697	0
	V181Azi before UV F136Azi after UV	0,99854	0
	V181Azi before UV A137Azi before UV	0,08046	0
	V181Azi before UV A137Azi after UV	0,15011	0
	V181Azi before UV L138Azi before UV	0,99967	0
	V181Azi before UV L138Azi after UV	1	0
	V181Azi before UV L194Azi before UV	0,75548	0
	V181Azi before UV L194Azi after UV	1	0
	V181Azi before UV V191Azi before UV	0,22919	0
	V181Azi before UV V191Azi after UV	1	0
	V181Azi before UV L188Azi before UV	0,04267	1
	V181Azi before UV L188Azi after UV	1	0
	V181Azi before UV F187Azi before UV	0,735	0
	V181Azi before UV F187Azi after UV	0,01429	1
	V181Azi before UV L185Azi before UV	0,98661	0
	V181Azi before UV L185Azi after UV	1	0
	V181Azi after UV O1 before UV	0,19361	0
	V181Azi after UV O1 after UV	0,26963	0
	V181Azi after UV O1+STIM1 before TG	0,19647	0
	V181Azi after UV O1+STIM1 after TG	0,17684	0
	V181Azi after UV L130Azi before UV	0,10114	0
	V181Azi after UV L130Azi after UV	1	0
	V181Azi after UV H134Azi before UV	0,15505	0
	V181Azi after UV H134Azi after UV	0,11974	0
	V181Azi after UV F136Azi before UV	0,09351	0
	V181Azi after UV F136Azi after UV	0,14221	0
	V181Azi after UV A137Azi before UV	1	0
	V181Azi after UV A137Azi after UV	1	0
	V181Azi after UV L138Azi before UV	0,14942	0
	V181Azi after UV L138Azi after UV	0,78079	0

	V181Azi after UV L194Azi before UV	0,06672	0
	V181Azi after UV L194Azi after UV	0,88301	0
	V181Azi after UV V191Azi before UV	1	0
	V181Azi after UV V191Azi after UV	0,51507	0
	V181Azi after UV L188Azi before UV	1	0
	V181Azi after UV L188Azi after UV	0,61698	0
	V181Azi after UV F187Azi before UV	0,06467	0
	V181Azi after UV F187Azi after UV	0,24563	0
	V181Azi after UV L185Azi before UV	0,11415	0
	V181Azi after UV L185Azi after UV	0,25802	0
	V181Azi after UV V181Azi before UV	0,55383	0
	S179Azi before UV O1 before UV	1	0
	S179Azi before UV O1 after UV	1	0
	S179Azi before UV O1+STIM1 before TG	1	0
	S179Azi before UV O1+STIM1 after TG	0,04232	1
	S179Azi before UV L130Azi before UV	0,80218	0
	S179Azi before UV L130Azi after UV	0,07784	0
	S179Azi before UV H134Azi before UV	0,99989	0
	S179Azi before UV H134Azi after UV	0,78565	0
	S179Azi before UV F136Azi before UV	0,1257	0
	S179Azi before UV F136Azi after UV	0,99402	0
	S179Azi before UV A137Azi before UV	0,03103	1
	S179Azi before UV A137Azi after UV	0,05831	0
	S179Azi before UV L138Azi before UV	1	0
	S179Azi before UV L138Azi after UV	0,96236	0
	S179Azi before UV L194Azi before UV	0,01226	1
	S179Azi before UV L194Azi after UV	0,65013	0
	S179Azi before UV V191Azi before UV	0,10555	0
	S179Azi before UV V191Azi after UV	0,86559	0
	S179Azi before UV L188Azi before UV	0,01057	1
	S179Azi before UV L188Azi after UV	0,33218	0
	S179Azi before UV F187Azi before UV	0,00971	1
	S179Azi before UV F187Azi after UV	0,00974	1
	S179Azi before UV L185Azi before UV	0,81512	0
	S179Azi before UV L185Azi after UV	1	0
	S179Azi before UV V181Azi before UV	1	0
	S179Azi before UV V181Azi after UV	0,2318	0
	S179Azi after UV O1 before UV	1	0
	S179Azi after UV O1 after UV	1	0
	S179Azi after UV O1+STIM1 before TG	1	0
	S179Azi after UV O1+STIM1 after TG	0,04159	1
	S179Azi after UV L130Azi before UV	1	0
	S179Azi after UV L130Azi after UV	0,08562	0
	S179Azi after UV H134Azi before UV	1	0
	S179Azi after UV H134Azi after UV	1	0
	S179Azi after UV F136Azi before UV	1	0
	S179Azi after UV F136Azi after UV	1	0
	S179Azi after UV A137Azi before UV	0,03154	1
	S179Azi after UV A137Azi after UV	0,06003	0
	S179Azi after UV L138Azi before UV	1	0
	S179Azi after UV L138Azi after UV	0,99666	0
	S179Azi after UV L194Azi before UV	0,99771	0
	S179Azi after UV L194Azi after UV	0,89896	0
	S179Azi after UV V191Azi before UV	0,1075	0
	S179Azi after UV V191Azi after UV	0,99973	0
	S179Azi after UV L188Azi before UV	0,0112	1
	S179Azi after UV L188Azi after UV	0,97817	0
	S179Azi after UV F187Azi before UV	0,99667	0
	S179Azi after UV F187Azi after UV	0,00947	1
	S179Azi after UV L185Azi before UV	1	0
	S179Azi after UV L185Azi after UV	1	0
	S179Azi after UV V181Azi before UV	1	0
	S179Azi after UV V181Azi after UV	0,24798	0
	S179Azi after UV S179Azi before UV	1	0
	W176Azi before UV O1 before UV	1	0
	W176Azi before UV O1 after UV	1	0
	W176Azi before UV O1+STIM1 before TG	0,99096	0
	W176Azi before UV O1+STIM1 after TG	0,03631	1
	W176Azi before UV L130Azi before UV	1	0
	W176Azi before UV L130Azi after UV	0,02821	1
	W176Azi before UV H134Azi before UV	0,99996	0
	W176Azi before UV H134Azi after UV	1	0
	W176Azi before UV F136Azi before UV	1	0
	W176Azi before UV F136Azi after UV	1	0
	W176Azi before UV A137Azi before UV	0,01441	1
	W176Azi before UV A137Azi after UV	0,02706	1
	W176Azi before UV L138Azi before UV	1	0
	W176Azi before UV L138Azi after UV	0,28967	0
	W176Azi before UV L194Azi before UV	1	0
	W176Azi before UV L194Azi after UV	0,12239	0
	W176Azi before UV V191Azi before UV	0,05458	0
	W176Azi before UV V191Azi after UV	0,02311	1
	W176Azi before UV L188Azi before UV	0,00371	1
	W176Azi before UV L188Azi after UV	0,0021	1
	W176Azi before UV F187Azi before UV	1	0
	W176Azi before UV F187Azi after UV	0,00686	1
	W176Azi before UV L185Azi before UV	1	0
	W176Azi before UV L185Azi after UV	0,99039	0
	W176Azi before UV V181Azi before UV	0,97469	0
	W176Azi before UV V181Azi after UV	0,10262	0
	W176Azi before UV S179Azi before UV	0,82085	0
	W176Azi before UV S179Azi after UV	1	0
	W176Azi after UV O1 before UV	0,67947	0
	W176Azi after UV O1 after UV	0,79216	0
	W176Azi after UV O1+STIM1 before TG	0,68095	0
	W176Azi after UV O1+STIM1 after TG	0,11488	0
	W176Azi after UV L130Azi before UV	0,46098	0
	W176Azi after UV L130Azi after UV	1	0
	W176Azi after UV H134Azi before UV	0,59819	0
	W176Azi after UV H134Azi after UV	0,51242	0
	W176Azi after UV F136Azi before UV	0,43672	0
	W176Azi after UV F136Azi after UV	0,56883	0
	W176Azi after UV A137Azi before UV	0,98869	0
	W176Azi after UV A137Azi after UV	0,99937	0
	W176Azi after UV L138Azi before UV	0,58717	0
	W176Azi after UV L138Azi after UV	0,99818	0
	W176Azi after UV L194Azi before UV	0,34623	0
	W176Azi after UV L194Azi after UV	0,99983	0
	W176Azi after UV V191Azi before UV	0,99923	0
	W176Azi after UV V191Azi after UV	0,96112	0
	W176Azi after UV L188Azi before UV	0,99905	0
	W176Azi after UV L188Azi after UV	0,98477	0
	W176Azi after UV F187Azi before UV	0,33866	0
	W176Azi after UV F187Azi after UV	0,10334	0
	W176Azi after UV L185Azi before UV	0,49759	0
	W176Azi after UV L185Azi after UV	0,77619	0
	W176Azi after UV V181Azi before UV	0,97164	0

	W176Azi after UV V181Azi after UV	1	0
	W176Azi after UV S179Azi before UV	0,73853	0
	W176Azi after UV S179Azi after UV	0,7649	0
	W176Azi after UV W176Azi before UV	0,46533	0
	L174Azi before UV O1 before UV	1	0
	L174Azi before UV O1 after UV	0,99766	0
	L174Azi before UV O1+STIM1 before TG	0,40011	0
	L174Azi before UV O1+STIM1 after TG	0,03504	1
	L174Azi before UV L130Azi before UV	1	0
	L174Azi before UV L130Azi after UV	0,02114	1
	L174Azi before UV H134Azi before UV	0,48773	0
	L174Azi before UV H134Azi after UV	0,99808	0
	L174Azi before UV F136Azi before UV	1	0
	L174Azi before UV F136Azi after UV	0,75411	0
	L174Azi before UV A137Azi before UV	0,01182	1
	L174Azi before UV A137Azi after UV	0,0221	1
	L174Azi before UV L138Azi before UV	0,99995	0
	L174Azi before UV L138Azi after UV	0,11545	0
	L174Azi before UV L194Azi before UV	1	0
	L174Azi before UV L194Azi after UV	0,05897	0
	L174Azi before UV V191Azi before UV	0,04579	1
	L174Azi before UV V191Azi after UV	0,00106	1
	L174Azi before UV L188Azi before UV	0,00284	1
	L174Azi before UV L188Azi after UV	7,19E-05	1
	L174Azi before UV F187Azi before UV	1	0
	L174Azi before UV F187Azi after UV	0,00631	1
	L174Azi before UV L185Azi before UV	0,99996	0
	L174Azi before UV L185Azi after UV	0,83836	0
	L174Azi before UV V181Azi before UV	0,87368	0
	L174Azi before UV V181Azi after UV	0,08084	0
	L174Azi before UV S179Azi before UV	0,04323	1
	L174Azi before UV S179Azi after UV	0,99991	0
	L174Azi before UV W176Azi before UV	1	0
	L174Azi before UV W176Azi after UV	0,39584	0
	L174Azi after UV O1 before UV	0,95028	0
	L174Azi after UV O1 after UV	0,99639	0
	L174Azi after UV O1+STIM1 before TG	0,79763	0
	L174Azi after UV O1+STIM1 after TG	0,05673	0
	L174Azi after UV L130Azi before UV	0,22789	0
	L174Azi after UV L130Azi after UV	0,44852	0
	L174Azi after UV H134Azi before UV	0,52397	0
	L174Azi after UV H134Azi after UV	0,29449	0
	L174Azi after UV F136Azi before UV	0,15108	0
	L174Azi after UV F136Azi after UV	0,43708	0
	L174Azi after UV A137Azi before UV	0,13985	0
	L174Azi after UV A137Azi after UV	0,25031	0
	L174Azi after UV L138Azi before UV	0,5936	0
	L174Azi after UV L138Azi after UV	1	0
	L174Azi after UV L194Azi before UV	0,0599	0
	L174Azi after UV L194Azi after UV	1	0
	L174Azi after UV V191Azi before UV	0,34904	0
	L174Azi after UV V191Azi after UV	1	0
	L174Azi after UV L188Azi before UV	0,08969	0
	L174Azi after UV L188Azi after UV	1	0
	L174Azi after UV F187Azi before UV	0,05512	0
	L174Azi after UV F187Azi after UV	0,01926	1
	L174Azi after UV L185Azi before UV	0,28075	0
	L174Azi after UV L185Azi after UV	0,98355	0
	L174Azi after UV V181Azi before UV	1	0
	L174Azi after UV V181Azi after UV	0,75967	0
	L174Azi after UV S179Azi before UV	0,91489	0
	L174Azi after UV S179Azi after UV	0,99304	0
	L174Azi after UV W176Azi before UV	0,23721	0
	L174Azi after UV W176Azi after UV	0,99742	0
	L174Azi after UV L174Azi before UV	0,10209	0
	A235Azi before UV O1 before UV	1	0
	A235Azi before UV O1 after UV	1	0
	A235Azi before UV O1+STIM1 before TG	0,99994	0
	A235Azi before UV O1+STIM1 after TG	0,04609	1
	A235Azi before UV L130Azi before UV	0,48422	0
	A235Azi before UV L130Azi after UV	0,13863	0
	A235Azi before UV H134Azi before UV	0,94771	0
	A235Azi before UV H134Azi after UV	0,54537	0
	A235Azi before UV F136Azi before UV	0,15348	0
	A235Azi before UV F136Azi after UV	0,85128	0
	A235Azi before UV A137Azi before UV	0,04851	1
	A235Azi before UV A137Azi after UV	0,09087	0
	A235Azi before UV L138Azi before UV	0,99081	0
	A235Azi before UV L138Azi after UV	0,99999	0
	A235Azi before UV L194Azi before UV	0,02443	1
	A235Azi before UV L194Azi after UV	0,98114	0
	A235Azi before UV V191Azi before UV	0,15324	0
	A235Azi before UV V191Azi after UV	1	0
	A235Azi before UV L188Azi before UV	0,01974	1
	A235Azi before UV L188Azi after UV	0,99948	0
	A235Azi before UV F187Azi before UV	0,02088	1
	A235Azi before UV F187Azi after UV	0,01188	1
	A235Azi before UV L185Azi before UV	0,56033	0
	A235Azi before UV L185Azi after UV	1	0
	A235Azi before UV V181Azi before UV	1	0
	A235Azi before UV V181Azi after UV	0,35744	0
	A235Azi before UV S179Azi before UV	1	0
	A235Azi before UV S179Azi after UV	1	0
	A235Azi before UV W176Azi before UV	0,5109	0
	A235Azi before UV W176Azi after UV	0,87819	0
	A235Azi before UV L174Azi before UV	0,07046	0
	A235Azi before UV L174Azi after UV	0,99993	0
	A235Azi after UV O1 before UV	1	0
	A235Azi after UV O1 after UV	1	0
	A235Azi after UV O1+STIM1 before TG	1	0
	A235Azi after UV O1+STIM1 after TG	0,04557	1
	A235Azi after UV L130Azi before UV	0,63485	0
	A235Azi after UV L130Azi after UV	0,13022	0
	A235Azi after UV H134Azi before UV	0,98491	0
	A235Azi after UV H134Azi after UV	0,71248	0
	A235Azi after UV F136Azi before UV	0,2632	0
	A235Azi after UV F136Azi after UV	0,93931	0
	A235Azi after UV A137Azi before UV	0,04601	1
	A235Azi after UV A137Azi after UV	0,08632	0
	A235Azi after UV L138Azi before UV	0,99773	0
	A235Azi after UV L138Azi after UV	0,99996	0
	A235Azi after UV L194Azi before UV	0,0504	0
	A235Azi after UV L194Azi after UV	0,97164	0
	A235Azi after UV V191Azi before UV	0,14675	0
	A235Azi after UV V191Azi after UV	1	0
	A235Azi after UV L188Azi before UV	0,01836	1
	A235Azi after UV L188Azi after UV	0,99836	0

A235Azi after UV F187Azi before UV	0,0437	1
A235Azi after UV F187Azi after UV	0,01158	1
A235Azi after UV L185Azi before UV	0,71163	0
A235Azi after UV L185Azi after UV	1	0
A235Azi after UV V181Azi before UV	1	0
A235Azi after UV V181Azi after UV	0,34142	0
A235Azi after UV S179Azi before UV	1	0
A235Azi after UV S179Azi after UV	1	0
A235Azi after UV W176Azi before UV	0,6587	0
A235Azi after UV W176Azi after UV	0,86509	0
A235Azi after UV L174Azi before UV	0,13298	0
A235Azi after UV L174Azi after UV	0,99976	0
A235Azi after UV A235Azi before UV	1	0
S239Azi before UV O1 before UV	1	0
S239Azi before UV O1 after UV	1	0
S239Azi before UV O1+STIM1 before TG	1	0
S239Azi before UV O1+STIM1 after TG	0,03867	1
S239Azi before UV L130Azi before UV	1	0
S239Azi before UV L130Azi after UV	0,05044	0
S239Azi before UV H134Azi before UV	1	0
S239Azi before UV H134Azi after UV	1	0
S239Azi before UV F136Azi before UV	1	0
S239Azi before UV F136Azi after UV	1	0
S239Azi before UV A137Azi before UV	0,02122	1
S239Azi before UV A137Azi after UV	0,04032	1
S239Azi before UV L138Azi before UV	1	0
S239Azi before UV L138Azi after UV	0,88075	0
S239Azi before UV L194Azi before UV	1	0
S239Azi before UV L194Azi after UV	0,53642	0
S239Azi before UV V191Azi before UV	0,07677	0
S239Azi before UV V191Azi after UV	0,87352	0
S239Azi before UV L188Azi before UV	0,00642	1
S239Azi before UV L188Azi after UV	0,51734	0
S239Azi before UV F187Azi before UV	1	0
S239Azi before UV F187Azi after UV	0,00799	1
S239Azi before UV L185Azi before UV	1	0
S239Azi before UV L185Azi after UV	1	0
S239Azi before UV V181Azi before UV	0,99997	0
S239Azi before UV V181Azi after UV	0,16396	0
S239Azi before UV S179Azi before UV	1	0
S239Azi before UV S179Azi after UV	1	0
S239Azi before UV W176Azi before UV	1	0
S239Azi before UV W176Azi after UV	0,62139	0
S239Azi before UV L174Azi before UV	1	0
S239Azi before UV L174Azi after UV	0,8272	0
S239Azi before UV A235Azi before UV	0,99991	0
S239Azi before UV A235Azi after UV	0,99998	0
S239Azi after UV O1 before UV	0,25159	0
S239Azi after UV O1 after UV	0,4442	0
S239Azi after UV O1+STIM1 before TG	0,10235	0
S239Azi after UV O1+STIM1 after TG	0,07487	0
S239Azi after UV L130Azi before UV	0,01311	1
S239Azi after UV L130Azi after UV	0,91792	0
S239Azi after UV H134Azi before UV	0,04449	1
S239Azi after UV H134Azi after UV	0,01931	1
S239Azi after UV F136Azi before UV	0,00855	1
S239Azi after UV F136Azi after UV	0,03355	1
S239Azi after UV A137Azi before UV	0,42659	0
S239Azi after UV A137Azi after UV	0,64261	0
S239Azi after UV L138Azi before UV	0,05152	0
S239Azi after UV L138Azi after UV	1	0
S239Azi after UV L194Azi before UV	0,003	1
S239Azi after UV L194Azi after UV	1	0
S239Azi after UV V191Azi before UV	0,72401	0
S239Azi after UV V191Azi after UV	0,91867	0
S239Azi after UV L188Azi before UV	0,41839	0
S239Azi after UV L188Azi after UV	0,98944	0
S239Azi after UV F187Azi before UV	0,00273	1
S239Azi after UV F187Azi after UV	0,0362	1
S239Azi after UV L185Azi before UV	0,01784	1
S239Azi after UV L185Azi after UV	0,31491	0
S239Azi after UV V181Azi before UV	0,98908	0
S239Azi after UV V181Azi after UV	0,99318	0
S239Azi after UV S179Azi before UV	0,16367	0
S239Azi after UV S179Azi after UV	0,36825	0
S239Azi after UV W176Azi before UV	0,01382	1
S239Azi after UV W176Azi after UV	1	0
S239Azi after UV L174Azi before UV	0,00543	1
S239Azi after UV L174Azi after UV	0,99999	0
S239Azi after UV A235Azi before UV	0,56862	0
S239Azi after UV A235Azi after UV	0,52431	0
S239Azi after UV S239Azi before UV	0,11325	0
M243Azi before UV O1 before UV	0,99971	0
M243Azi before UV O1 after UV	1	0
M243Azi before UV O1+STIM1 before TG	0,99942	0
M243Azi before UV O1+STIM1 after TG	0,0558	0
M243Azi before UV L130Azi before UV	0,95896	0
M243Azi before UV L130Azi after UV	0,55439	0
M243Azi before UV H134Azi before UV	0,99502	0
M243Azi before UV H134Azi after UV	0,97768	0
M243Azi before UV F136Azi before UV	0,93969	0
M243Azi before UV F136Azi after UV	0,99116	0
M243Azi before UV A137Azi before UV	0,17365	0
M243Azi before UV A137Azi after UV	0,30561	0
M243Azi before UV L138Azi before UV	0,99496	0
M243Azi before UV L138Azi after UV	1	0
M243Azi before UV L194Azi before UV	0,85348	0
M243Azi before UV L194Azi after UV	1	0
M243Azi before UV V191Azi before UV	0,39764	0
M243Azi before UV V191Azi after UV	1	0
M243Azi before UV L188Azi before UV	0,13957	0
M243Azi before UV L188Azi after UV	1	0
M243Azi before UV F187Azi before UV	0,8441	0
M243Azi before UV F187Azi after UV	0,01927	1
M243Azi before UV L185Azi before UV	0,97338	0
M243Azi before UV L185Azi after UV	1	0
M243Azi before UV V181Azi before UV	1	0
M243Azi before UV V181Azi after UV	0,83115	0
M243Azi before UV S179Azi before UV	0,99992	0
M243Azi before UV S179Azi after UV	1	0
M243Azi before UV W176Azi before UV	0,96117	0
M243Azi before UV W176Azi after UV	0,99898	0
M243Azi before UV L174Azi before UV	0,90717	0
M243Azi before UV L174Azi after UV	1	0
M243Azi before UV A235Azi before UV	1	0
M243Azi before UV A235Azi after UV	1	0
M243Azi before UV S239Azi before UV	0,99834	0

M243Azi before UV S239Azi after UV	1	0
M243Azi after UV O1 before UV	0,91142	0
M243Azi after UV O1 after UV	0,99255	0
M243Azi after UV O1+STIM1 before TG	0,43738	0
M243Azi after UV O1+STIM1 after TG	0,05391	0
M243Azi after UV L130Azi before UV	0,04959	1
M243Azi after UV L130Azi after UV	0,32389	0
M243Azi after UV H134Azi before UV	0,17354	0
M243Azi after UV H134Azi after UV	0,07266	0
M243Azi after UV F136Azi before UV	0,03193	1
M243Azi after UV F136Azi after UV	0,12893	0
M243Azi after UV A137Azi before UV	0,10255	0
M243Azi after UV A137Azi after UV	0,18665	0
M243Azi after UV L138Azi before UV	0,25664	0
M243Azi after UV L138Azi after UV	1	0
M243Azi after UV L194Azi before UV	0,0106	1
M243Azi after UV L194Azi after UV	1	0
M243Azi after UV V191Azi before UV	0,27743	0
M243Azi after UV V191Azi after UV	1	0
M243Azi after UV L188Azi before UV	0,05619	0
M243Azi after UV L188Azi after UV	1	0
M243Azi after UV F187Azi before UV	0,00939	1
M243Azi after UV F187Azi after UV	0,01698	1
M243Azi after UV L185Azi before UV	0,07066	0
M243Azi after UV L185Azi after UV	0,93828	0
M243Azi after UV V181Azi before UV	1	0
M243Azi after UV V181Azi after UV	0,6332	0
M243Azi after UV S179Azi before UV	0,63993	0
M243Azi after UV S179Azi after UV	0,98722	0
M243Azi after UV W176Azi before UV	0,05371	0
M243Azi after UV W176Azi after UV	0,98709	0
M243Azi after UV L174Azi before UV	0,01992	1
M243Azi after UV L174Azi after UV	1	0
M243Azi after UV A235Azi before UV	0,99967	0
M243Azi after UV A235Azi after UV	0,99904	0
M243Azi after UV S239Azi before UV	0,66105	0
M243Azi after UV S239Azi after UV	0,99434	0
M243Azi after UV M243Azi before UV	1	0
P245Azi before UV O1 before UV	0,94131	0
P245Azi before UV O1 after UV	0,95662	0
P245Azi before UV O1+STIM1 before TG	0,94835	0
P245Azi before UV O1+STIM1 after TG	0,62066	0
P245Azi before UV L130Azi before UV	0,91763	0
P245Azi before UV L130Azi after UV	1	0
P245Azi before UV H134Azi before UV	0,93867	0
P245Azi before UV H134Azi after UV	0,92682	0
P245Azi before UV F136Azi before UV	0,9148	0
P245Azi before UV F136Azi after UV	0,93482	0
P245Azi before UV A137Azi before UV	1	0
P245Azi before UV A137Azi after UV	1	0
P245Azi before UV L138Azi before UV	0,93551	0
P245Azi before UV L138Azi after UV	0,99172	0
P245Azi before UV L194Azi before UV	0,89684	0
P245Azi before UV L194Azi after UV	0,99525	0
P245Azi before UV V191Azi before UV	1	0
P245Azi before UV V191Azi after UV	0,98192	0
P245Azi before UV L188Azi before UV	1	0
P245Azi before UV L188Azi after UV	0,98705	0
P245Azi before UV F187Azi before UV	0,89508	0
P245Azi before UV F187Azi after UV	0,98597	0
P245Azi before UV L185Azi before UV	0,92415	0
P245Azi before UV L185Azi after UV	0,95726	0
P245Azi before UV V181Azi before UV	0,98067	0
P245Azi before UV V181Azi after UV	1	0
P245Azi before UV S179Azi before UV	0,95516	0
P245Azi before UV S179Azi after UV	0,95333	0
P245Azi before UV W176Azi before UV	0,91835	0
P245Azi before UV W176Azi after UV	1	0
P245Azi before UV L174Azi before UV	0,90722	0
P245Azi before UV L174Azi after UV	0,99122	0
P245Azi before UV A235Azi before UV	0,9701	0
P245Azi before UV A235Azi after UV	0,96842	0
P245Azi before UV S239Azi before UV	0,93662	0
P245Azi before UV S239Azi after UV	0,99911	0
P245Azi before UV M243Azi before UV	0,99127	0
P245Azi before UV M243Azi after UV	0,98741	0
P245Azi after UV O1 before UV	0,99577	0
P245Azi after UV O1 after UV	0,99794	0
P245Azi after UV O1+STIM1 before TG	0,99682	0
P245Azi after UV O1+STIM1 after TG	0,277	0
P245Azi after UV L130Azi before UV	0,99055	0
P245Azi after UV L130Azi after UV	1	0
P245Azi after UV H134Azi before UV	0,99521	0
P245Azi after UV H134Azi after UV	0,99278	0
P245Azi after UV F136Azi before UV	0,98977	0
P245Azi after UV F136Azi after UV	0,99448	0
P245Azi after UV A137Azi before UV	1	0
P245Azi after UV A137Azi after UV	1	0
P245Azi after UV L138Azi before UV	0,99464	0
P245Azi after UV L138Azi after UV	0,99997	0
P245Azi after UV L194Azi before UV	0,98428	0
P245Azi after UV L194Azi after UV	1	0
P245Azi after UV V191Azi before UV	1	0
P245Azi after UV V191Azi after UV	0,99977	0
P245Azi after UV L188Azi before UV	1	0
P245Azi after UV L188Azi after UV	0,9999	0
P245Azi after UV F187Azi before UV	0,98368	0
P245Azi after UV F187Azi after UV	0,63024	0
P245Azi after UV L185Azi before UV	0,99217	0
P245Azi after UV L185Azi after UV	0,99799	0
P245Azi after UV V181Azi before UV	0,99973	0
P245Azi after UV V181Azi after UV	1	0
P245Azi after UV S179Azi before UV	0,99773	0
P245Azi after UV S179Azi after UV	0,99754	0
P245Azi after UV W176Azi before UV	0,99074	0
P245Azi after UV W176Azi after UV	1	0
P245Azi after UV L174Azi before UV	0,9876	0
P245Azi after UV L174Azi after UV	0,99997	0
P245Azi after UV A235Azi before UV	0,99917	0
P245Azi after UV A235Azi after UV	0,99904	0
P245Azi after UV S239Azi before UV	0,9949	0
P245Azi after UV S239Azi after UV	1	0
P245Azi after UV M243Azi before UV	0,99997	0
P245Azi after UV M243Azi after UV	0,99991	0
P245Azi after UV P245Azi before UV	1	0
F250Azi before UV O1 before UV	0,90385	0
F250Azi before UV O1 after UV	0,94553	0

	F250Azi before UV O1+STIM1 before TG	0,91379	0
	F250Azi before UV O1+STIM1 after TG	0,14322	0
	F250Azi before UV L130Azi before UV	0,81026	0
	F250Azi before UV L130Azi after UV	1	0
	F250Azi before UV H134Azi before UV	0,88128	0
	F250Azi before UV H134Azi after UV	0,8404	0
	F250Azi before UV F136Azi before UV	0,79763	0
	F250Azi before UV F136Azi after UV	0,86815	0
	F250Azi before UV A137Azi before UV	0,99993	0
	F250Azi before UV A137Azi after UV	1	0
	F250Azi before UV L138Azi before UV	0,87386	0
	F250Azi before UV L138Azi after UV	0,99943	0
	F250Azi before UV L194Azi before UV	0,7348	0
	F250Azi before UV L194Azi after UV	0,99992	0
	F250Azi before UV V191Azi before UV	1	0
	F250Azi before UV V191Azi after UV	0,99225	0
	F250Azi before UV L188Azi before UV	1	0
	F250Azi before UV L188Azi after UV	0,99694	0
	F250Azi before UV F187Azi before UV	0,7288	0
	F250Azi before UV F187Azi after UV	0,18305	0
	F250Azi before UV L185Azi before UV	0,83187	0
	F250Azi before UV L185Azi after UV	0,94346	0
	F250Azi before UV V181Azi before UV	0,99294	0
	F250Azi before UV V181Azi after UV	1	0
	F250Azi before UV S179Azi before UV	0,93413	0
	F250Azi before UV S179Azi after UV	0,9367	0
	F250Azi before UV W176Azi before UV	0,81278	0
	F250Azi before UV W176Azi after UV	1	0
	F250Azi before UV L174Azi before UV	0,77098	0
	F250Azi before UV L174Azi after UV	0,99927	0
	F250Azi before UV A235Azi before UV	0,97323	0
	F250Azi before UV A235Azi after UV	0,9698	0
	F250Azi before UV S239Azi before UV	0,88394	0
	F250Azi before UV S239Azi after UV	1	0
	F250Azi before UV M243Azi before UV	0,99956	0
	F250Azi before UV M243Azi after UV	0,9973	0
	F250Azi before UV P245Azi before UV	1	0
	F250Azi before UV P245Azi after UV	1	0
	F250Azi after UV O1 before UV	0,37443	0
	F250Azi after UV O1 after UV	0,42902	0
	F250Azi after UV O1+STIM1 before TG	0,39187	0
	F250Azi after UV O1+STIM1 after TG	0,45101	0
	F250Azi after UV L130Azi before UV	0,30611	0
	F250Azi after UV L130Azi after UV	1	0
	F250Azi after UV H134Azi before UV	0,3599	0
	F250Azi after UV H134Azi after UV	0,32731	0
	F250Azi after UV F136Azi before UV	0,29921	0
	F250Azi after UV F136Azi after UV	0,34866	0
	F250Azi after UV A137Azi before UV	1	0
	F250Azi after UV A137Azi after UV	1	0
	F250Azi after UV L138Azi before UV	0,35187	0
	F250Azi after UV L138Azi after UV	0,69332	0
	F250Azi after UV L194Azi before UV	0,26435	0
	F250Azi after UV L194Azi after UV	0,7586	0
	F250Azi after UV V191Azi before UV	1	0
	F250Azi after UV V191Azi after UV	0,5733	0
	F250Azi after UV L188Azi before UV	1	0
	F250Azi after UV L188Azi after UV	0,62359	0
	F250Azi after UV F187Azi before UV	0,2613	0
	F250Azi after UV F187Azi after UV	0,89186	0
	F250Azi after UV L185Azi before UV	0,32095	0
	F250Azi after UV L185Azi after UV	0,42867	0
	F250Azi after UV V181Azi before UV	0,57273	0
	F250Azi after UV V181Azi after UV	1	0
	F250Azi after UV S179Azi before UV	0,41745	0
	F250Azi after UV S179Azi after UV	0,41556	0
	F250Azi after UV W176Azi before UV	0,30772	0
	F250Azi after UV W176Azi after UV	0,99902	0
	F250Azi after UV L174Azi before UV	0,28363	0
	F250Azi after UV L174Azi after UV	0,68417	0
	F250Azi after UV A235Azi before UV	0,49065	0
	F250Azi after UV A235Azi after UV	0,48135	0
	F250Azi after UV S239Azi before UV	0,35767	0
	F250Azi after UV S239Azi after UV	0,89429	0
	F250Azi after UV M243Azi before UV	0,70229	0
	F250Azi after UV M243Azi after UV	0,629	0
	F250Azi after UV P245Azi before UV	1	0
	F250Azi after UV P245Azi after UV	1	0
	F250Azi after UV F250Azi before UV	1	0
	A254Azi before UV O1 before UV	0,45405	0
	A254Azi before UV O1 after UV	0,63836	0
	A254Azi before UV O1+STIM1 before TG	0,39052	0
	A254Azi before UV O1+STIM1 after TG	0,0901	0
	A254Azi before UV L130Azi before UV	0,14103	0
	A254Azi before UV L130Azi after UV	0,99875	0
	A254Azi before UV H134Azi before UV	0,27151	0
	A254Azi before UV H134Azi after UV	0,17985	0
	A254Azi before UV F136Azi before UV	0,11816	0
	A254Azi before UV F136Azi after UV	0,23709	0
	A254Azi before UV A137Azi before UV	0,77729	0
	A254Azi before UV A137Azi after UV	0,93039	0
	A254Azi before UV L138Azi before UV	0,27079	0
	A254Azi before UV L138Azi after UV	0,99983	0
	A254Azi before UV L194Azi before UV	0,066	0
	A254Azi before UV L194Azi after UV	1	0
	A254Azi before UV V191Azi before UV	0,94503	0
	A254Azi before UV V191Azi after UV	0,95244	0
	A254Azi before UV L188Azi before UV	0,86398	0
	A254Azi before UV L188Azi after UV	0,98896	0
	A254Azi before UV F187Azi before UV	0,06257	0
	A254Azi before UV F187Azi after UV	0,05674	0
	A254Azi before UV L185Azi before UV	0,16873	0
	A254Azi before UV L185Azi after UV	0,58098	0
	A254Azi before UV V181Azi before UV	0,97949	0
	A254Azi before UV V181Azi after UV	0,99999	0
	A254Azi before UV S179Azi before UV	0,48451	0
	A254Azi before UV S179Azi after UV	0,58638	0
	A254Azi before UV W176Azi before UV	0,14455	0
	A254Azi before UV W176Azi after UV	1	0
	A254Azi before UV L174Azi before UV	0,09213	0
	A254Azi before UV L174Azi after UV	0,99964	0
	A254Azi before UV A235Azi before UV	0,7804	0
	A254Azi before UV A235Azi after UV	0,75302	0
	A254Azi before UV S239Azi before UV	0,34158	0
	A254Azi before UV S239Azi after UV	1	0
	A254Azi before UV M243Azi before UV	0,99991	0
	A254Azi before UV M243Azi after UV	0,99202	0

S1c - 0mM and 2mM Ca2+ solution	Welch-ANOVA	0	F(41, 368.33)=7.79	A254Azi before UV P245Azi before UV	0,99991	0
				A254Azi before UV P245Azi after UV	1	0
				A254Azi before UV F250Azi before UV	1	0
				A254Azi before UV F250Azi after UV	0,9754	0
				A254Azi after UV O1 before UV	0	1
				A254Azi after UV O1 after UV	0	1
				A254Azi after UV O1+STIM1 before TG	0	1
				A254Azi after UV O1+STIM1 after TG	0,99939	0
				A254Azi after UV L130Azi before UV	0	1
				A254Azi after UV L130Azi after UV	4,16E-04	1
				A254Azi after UV H134Azi before UV	0	1
				A254Azi after UV H134Azi after UV	2,54E-06	1
				A254Azi after UV F136Azi before UV	0	1
				A254Azi after UV F136Azi after UV	0	1
				A254Azi after UV A137Azi before UV	0,0267	1
				A254Azi after UV A137Azi after UV	0,00809	1
				A254Azi after UV L138Azi before UV	0	1
				A254Azi after UV L138Azi after UV	0	1
				A254Azi after UV L194Azi before UV	0	1
				A254Azi after UV L194Azi after UV	0	1
				A254Azi after UV V191Azi before UV	0,02449	1
				A254Azi after UV V191Azi after UV	0	1
				A254Azi after UV L188Azi before UV	0,00179	1
				A254Azi after UV L188Azi after UV	0	1
				A254Azi after UV F187Azi before UV	0	1
				A254Azi after UV F187Azi after UV	1	0
				A254Azi after UV L185Azi before UV	0	1
				A254Azi after UV L185Azi after UV	0	1
				A254Azi after UV V181Azi before UV	0	1
				A254Azi after UV V181Azi after UV	1,54E-04	1
				A254Azi after UV S179Azi before UV	0	1
				A254Azi after UV S179Azi after UV	0	1
				A254Azi after UV W176Azi before UV	0	1
				A254Azi after UV W176Azi after UV	5,96E-06	1
				A254Azi after UV L174Azi before UV	0	1
				A254Azi after UV L174Azi after UV	0	1
				A254Azi after UV A235Azi before UV	3,89E-06	1
				A254Azi after UV A235Azi after UV	0	1
				A254Azi after UV S239Azi before UV	0	1
				A254Azi after UV S239Azi after UV	0	1
				A254Azi after UV M243Azi before UV	0	1
				A254Azi after UV M243Azi after UV	0	1
				A254Azi after UV P245Azi before UV	0,87089	0
				A254Azi after UV P245Azi after UV	0,15343	0
				A254Azi after UV F250Azi before UV	2,92E-04	1
				A254Azi after UV F250Azi after UV	0,31857	0
				A254Azi after UV A254Azi before UV	2,22E-07	1
				A235Bpa 0 A235Bpa 2	0,91192	0
				S239Bpa 2 A235Bpa 2	0,99497	0
				S239Bpa 2 A235Bpa 0	0,35462	0
				S239Bpa 0 A235Bpa 2	0,99975	0
				S239Bpa 0 A235Bpa 0	0,21333	0
				S239Bpa 0 S239Bpa 2	1	0
				M243Bpa 2 A235Bpa 2	0,96423	0
				M243Bpa 2 A235Bpa 0	0,94336	0
				M243Bpa 2 S239Bpa 2	0,99614	0
				M243Bpa 2 S239Bpa 0	0,81377	0
				M243Bpa 0 A235Bpa 2	0,91766	0
				M243Bpa 0 A235Bpa 0	1	0
				M243Bpa 0 S239Bpa 2	0,45036	0
				M243Bpa 0 S239Bpa 0	0,25689	0
				M243Bpa 0 M243Bpa 2	0,98422	0
				P245Bpa 2 A235Bpa 2	0,99929	0
				P245Bpa 2 A235Bpa 0	0,0461	1
				P245Bpa 2 S239Bpa 2	1	0
				P245Bpa 2 S239Bpa 0	1	0
				P245Bpa 2 M243Bpa 2	0,57077	0
				P245Bpa 2 M243Bpa 0	0,06452	0
				P245Bpa 0 A235Bpa 2	0,97435	0
				P245Bpa 0 A235Bpa 0	0,99992	0
				P245Bpa 0 S239Bpa 2	1	0
				P245Bpa 0 S239Bpa 0	0,9871	0
				P245Bpa 0 M243Bpa 2	1	0
				P245Bpa 0 M243Bpa 0	0,99999	0
				P245Bpa 0 P245Bpa 2	0,97775	0
				F250Bpa 2 A235Bpa 2	0,52396	0
				F250Bpa 2 A235Bpa 0	0,24714	0
				F250Bpa 2 S239Bpa 2	0,2909	0
				F250Bpa 2 S239Bpa 0	0,3181	0
				F250Bpa 2 M243Bpa 2	0,26444	0
				F250Bpa 2 M243Bpa 0	0,24855	0
				F250Bpa 2 P245Bpa 2	0,31085	0
				F250Bpa 2 P245Bpa 0	0,26828	0
				F250Bpa 0 A235Bpa 2	0,99948	0
				F250Bpa 0 A235Bpa 0	0,83849	0
				F250Bpa 0 S239Bpa 2	1	0
				F250Bpa 0 S239Bpa 0	1	0
				F250Bpa 0 M243Bpa 2	0,99783	0
				F250Bpa 0 M243Bpa 0	0,87173	0
				F250Bpa 0 P245Bpa 2	1	0
				F250Bpa 0 P245Bpa 0	0,99998	0
				F250Bpa 0 F250Bpa 2	0,30999	0
				A254Bpa 2 A235Bpa 2	1,70E-04	1
				A254Bpa 2 A235Bpa 0	6,70E-06	1
				A254Bpa 2 S239Bpa 2	1,19E-05	1
				A254Bpa 2 S239Bpa 0	1,66E-05	1
				A254Bpa 2 M243Bpa 2	8,50E-06	1
				A254Bpa 2 M243Bpa 0	6,83E-06	1
				A254Bpa 2 P245Bpa 2	1,52E-05	1
				A254Bpa 2 P245Bpa 0	8,88E-06	1
				A254Bpa 2 F250Bpa 2	1	0
				A254Bpa 2 F250Bpa 0	1,50E-05	1
				A254Bpa 0 A235Bpa 2	0,99652	0
				A254Bpa 0 A235Bpa 0	0,99586	0
				A254Bpa 0 S239Bpa 2	1	0
				A254Bpa 0 S239Bpa 0	1	0
				A254Bpa 0 M243Bpa 2	1	0
				A254Bpa 0 M243Bpa 0	0,99785	0
				A254Bpa 0 P245Bpa 2	1	0
				A254Bpa 0 P245Bpa 0	1	0
				A254Bpa 0 F250Bpa 2	0,29138	0
				A254Bpa 0 F250Bpa 0	1	0
				A254Bpa 0 A254Bpa 2	1,19E-05	1
				L194Bpa 2 A235Bpa 2	1	0
				L194Bpa 2 A235Bpa 0	0,98836	0

				L1948pa 2 S239Bpa 2	1	0
				L1948pa 2 S239Bpa 0	1	0
				L1948pa 2 M243Bpa 2	0,99889	0
				L1948pa 2 M243Bpa 0	0,99015	0
				L1948pa 2 P245Bpa 2	1	0
				L1948pa 2 P245Bpa 0	0,9996	0
				L1948pa 2 F250Bpa 2	0,38933	0
				L1948pa 2 F250Bpa 0	1	0
				L1948pa 2 A254Bpa 2	3,80E-05	1
				L1948pa 2 A254Bpa 0	1	0
				L1948pa 0 A235Bpa 2	1	0
				L1948pa 0 A235Bpa 0	0,94636	0
				L1948pa 0 S239Bpa 2	1	0
				L1948pa 0 S239Bpa 0	1	0
				L1948pa 0 M243Bpa 2	0,99332	0
				L1948pa 0 M243Bpa 0	0,95348	0
				L1948pa 0 P245Bpa 2	1	0
				L1948pa 0 P245Bpa 0	0,99782	0
				L1948pa 0 F250Bpa 2	0,37118	0
				L1948pa 0 F250Bpa 0	1	0
				L1948pa 0 A254Bpa 2	3,03E-05	1
				L1948pa 0 A254Bpa 0	1	0
				L1948pa 0 L194Bpa 2	1	0
				V191Bpa 2 A235Bpa 2	0,92567	0
				V191Bpa 2 A235Bpa 0	1	0
				V191Bpa 2 S239Bpa 2	0,46738	0
				V191Bpa 2 S239Bpa 0	0,2834	0
				V191Bpa 2 M243Bpa 2	0,98122	0
				V191Bpa 2 M243Bpa 0	1	0
				V191Bpa 2 P245Bpa 2	0,0692	0
				V191Bpa 2 P245Bpa 0	1	0
				V191Bpa 2 F250Bpa 2	0,25095	0
				V191Bpa 2 F250Bpa 0	0,89674	0
				V191Bpa 2 A254Bpa 2	7,00E-06	1
				V191Bpa 2 A254Bpa 0	0,99895	0
				V191Bpa 2 L194Bpa 2	0,99227	0
				V191Bpa 2 L194Bpa 0	0,96162	0
				V191Bpa 0 A235Bpa 2	0,95203	0
				V191Bpa 0 A235Bpa 0	0,99999	0
				V191Bpa 0 S239Bpa 2	0,96694	0
				V191Bpa 0 S239Bpa 0	0,66955	0
				V191Bpa 0 M243Bpa 2	1	0
				V191Bpa 0 M243Bpa 0	1	0
				V191Bpa 0 P245Bpa 2	0,38981	0
				V191Bpa 0 P245Bpa 0	1	0
				V191Bpa 0 F250Bpa 2	0,25904	0
				V191Bpa 0 F250Bpa 0	0,98927	0
				V191Bpa 0 A254Bpa 2	7,89E-06	1
				V191Bpa 0 A254Bpa 0	1	0
				V191Bpa 0 L194Bpa 2	0,99756	0
				V191Bpa 0 L194Bpa 0	0,98647	0
				V191Bpa 0 V191Bpa 2	1	0
				L188Bpa 2 A235Bpa 2	0,01419	1
				L188Bpa 2 A235Bpa 0	0,00635	1
				L188Bpa 2 S239Bpa 2	0,00749	1
				L188Bpa 2 S239Bpa 0	0,00822	1
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				L188Bpa 2 P245Bpa 2	0,00803	1
				L188Bpa 2 P245Bpa 0	0,00689	1
				L188Bpa 2 F250Bpa 2	0,99676	0
				L188Bpa 2 F250Bpa 0	0,00798	1
				L188Bpa 2 A254Bpa 2	0,9794	0
				L188Bpa 2 A254Bpa 0	0,00748	1
				L188Bpa 2 L194Bpa 2	0,00998	1
				L188Bpa 2 L194Bpa 0	0,00957	1
				L188Bpa 2 V191Bpa 2	0,00645	1
				L188Bpa 2 V191Bpa 0	0,00665	1
				L188Bpa 0 A235Bpa 2	0,93063	0
				L188Bpa 0 A235Bpa 0	1	0
				L188Bpa 0 S239Bpa 2	0,68128	0
				L188Bpa 0 S239Bpa 0	0,37816	0
				L188Bpa 0 M243Bpa 2	0,99991	0
				L188Bpa 0 M243Bpa 0	1	0
				L188Bpa 0 P245Bpa 2	0,12798	0
				L188Bpa 0 P245Bpa 0	1	0
				L188Bpa 0 F250Bpa 2	0,25206	0
				L188Bpa 0 F250Bpa 0	0,93305	0
				L188Bpa 0 A254Bpa 2	7,11E-06	1
				L188Bpa 0 A254Bpa 0	0,99966	0
				L188Bpa 0 L194Bpa 2	0,99359	0
				L188Bpa 0 L194Bpa 0	0,96794	0
				L188Bpa 0 V191Bpa 2	1	0
				L188Bpa 0 V191Bpa 0	1	0
				L188Bpa 0 L188Bpa 2	0,00648	1
				F187Azi 2 A235Bpa 2	0,99565	0
				F187Azi 2 A235Bpa 0	0,05934	0
				F187Azi 2 S239Bpa 2	1	0
				F187Azi 2 S239Bpa 0	1	0
				F187Azi 2 M243Bpa 2	0,92141	0
				F187Azi 2 M243Bpa 0	0,1004	0
				F187Azi 2 P245Bpa 2	1	0
				F187Azi 2 P245Bpa 0	0,99998	0
				F187Azi 2 F250Bpa 2	0,29312	0
				F187Azi 2 F250Bpa 0	1	0
				F187Azi 2 A254Bpa 2	1,23E-05	1
				F187Azi 2 A254Bpa 0	1	0
				F187Azi 2 L194Bpa 2	1	0
				F187Azi 2 L194Bpa 0	1	0
				F187Azi 2 V191Bpa 2	0,08716	0
				F187Azi 2 V191Bpa 0	0,75882	0
				F187Azi 2 L188Bpa 2	0,00756	1
				F187Azi 2 L188Bpa 0	0,25047	0
				F187Azi 0 A235Bpa 2	0,9123	0
				F187Azi 0 A235Bpa 0	1	0
				F187Azi 0 S239Bpa 2	0,28471	0
				F187Azi 0 S239Bpa 0	0,19239	0
				F187Azi 0 M243Bpa 2	0,80779	0
				F187Azi 0 M243Bpa 0	1	0
				F187Azi 0 P245Bpa 2	0,03648	1
				F187Azi 0 P245Bpa 0	0,99983	0
				F187Azi 0 F250Bpa 2	0,24743	0
				F187Azi 0 F250Bpa 0	0,82551	0
				F187Azi 0 A254Bpa 2	6,73E-06	1
				F187Azi 0 A254Bpa 0	0,99506	0
				F187Azi 0 L194Bpa 2	0,98838	0
				F187Azi 0 L194Bpa 0	0,94587	0

			F187Azi 0 V191Bpa 2	1	0
			F187Azi 0 V191Bpa 0	0,99988	0
			F187Azi 0 L188Bpa 2	0,00636	1
			F187Azi 0 L188Bpa 0	1	0
			F187Azi 0 F187Azi 2	0,03296	1
			L185Bpa 2 A235Bpa 2	0,97485	0
			L185Bpa 2 A235Bpa 0	0,99738	0
			L185Bpa 2 S239Bpa 2	1	0
			L185Bpa 2 S239Bpa 0	0,98007	0
			L185Bpa 2 M243Bpa 2	1	0
			L185Bpa 2 M243Bpa 0	0,99936	0
			L185Bpa 2 P245Bpa 2	0,95856	0
			L185Bpa 2 P245Bpa 0	1	0
			L185Bpa 2 F250Bpa 2	0,26916	0
			L185Bpa 2 F250Bpa 0	0,99996	0
			L185Bpa 2 A254Bpa 2	9,00E-06	1
			L185Bpa 2 A254Bpa 0	1	0
			L185Bpa 2 L194Bpa 2	0,99961	0
			L185Bpa 2 L194Bpa 0	0,99777	0
			L185Bpa 2 V191Bpa 2	0,99975	0
			L185Bpa 2 V191Bpa 0	1	0
			L185Bpa 2 L188Bpa 2	0,00691	1
			L185Bpa 2 L188Bpa 0	1	0
			L185Bpa 2 F187Azi 2	0,99993	0
			L185Bpa 2 F187Azi 0	0,99402	0
			L185Bpa 0 A235Bpa 2	0,97882	0
			L185Bpa 0 A235Bpa 0	0,98658	0
			L185Bpa 0 S239Bpa 2	1	0
			L185Bpa 0 S239Bpa 0	0,99166	0
			L185Bpa 0 M243Bpa 2	1	0
			L185Bpa 0 M243Bpa 0	0,99536	0
			L185Bpa 0 P245Bpa 2	0,98324	0
			L185Bpa 0 P245Bpa 0	1	0
			L185Bpa 0 F250Bpa 2	0,27183	0
			L185Bpa 0 F250Bpa 0	1	0
			L185Bpa 0 A254Bpa 2	9,32E-06	1
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			L185Bpa 0 L194Bpa 0	0,99864	0
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			L185Bpa 0 V191Bpa 0	1	0
			L185Bpa 0 L188Bpa 2	0,00698	1
			L185Bpa 0 L188Bpa 0	0,99989	0
			L185Bpa 0 F187Azi 2	1	0
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			V181Bpa 2 P245Bpa 2	0,10445	0
			V181Bpa 2 P245Bpa 0	0,06197	0
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			V181Bpa 2 A254Bpa 2	0,4046	0
			V181Bpa 2 A254Bpa 0	0,0848	0
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			V181Bpa 2 L188Bpa 2	0,13963	0
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			V181Bpa 2 F187Azi 0	0,04589	1
			V181Bpa 2 L185Bpa 2	0,0625	0
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			V181Bpa 0 M243Bpa 0	0,84235	0
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			V181Bpa 0 F250Bpa 0	1	0
			V181Bpa 0 A254Bpa 2	1,17E-05	1
			V181Bpa 0 A254Bpa 0	1	0
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			V181Bpa 0 V191Bpa 0	0,99841	0
			V181Bpa 0 L188Bpa 2	0,00745	1
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			V181Bpa 0 L185Bpa 2	1	0
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			S179Bpa 2 F250Bpa 0	1	0
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				S1798pa 0 L1858pa 0	1	0
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				S1798pa 0 V1818pa 0	1	0
				S1798pa 0 S1798pa 2	1	0
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				W1768pa 2 S2398pa 2	2,26E-04	1
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				W1768pa 2 M2438pa 0	1,41E-04	1
				W1768pa 2 P2458pa 2	2,77E-04	1
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				W1768pa 2 L1948pa 0	4,93E-04	1
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				W1768pa 2 V1918pa 0	1,60E-04	1
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				W1768pa 2 L1858pa 0	1,84E-04	1
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				W1768pa 0 F2508pa 0	0,99013	0
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			L1308pa 2 P2458pa 0	0,99996	0
			L1308pa 2 F2508pa 2	0,33214	0
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	F136Bpa 2 A254Bpa 2	8,69E-05	1
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	F136Bpa 0 F250Bpa 0	0,98528	0
	F136Bpa 0 A254Bpa 2	7,96E-06	1
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	A137Bpa 2 A235Bpa 0	0,82105	0
	A137Bpa 2 S239Bpa 2	0,97529	0
	A137Bpa 2 S239Bpa 0	0,99629	0
	A137Bpa 2 M243Bpa 2	0,90605	0
	A137Bpa 2 M243Bpa 0	0,82952	0
	A137Bpa 2 P245Bpa 2	0,99309	0
	A137Bpa 2 P245Bpa 0	0,92458	0
	A137Bpa 2 F250Bpa 2	0,62595	0
	A137Bpa 2 F250Bpa 0	0,99405	0
	A137Bpa 2 A254Bpa 2	4,74E-04	1
	A137Bpa 2 A254Bpa 0	0,97985	0
	A137Bpa 2 L194Bpa 2	1	0
	A137Bpa 2 L194Bpa 0	1	0
	A137Bpa 2 V191Bpa 2	0,84191	0
	A137Bpa 2 V191Bpa 0	0,88413	0
	A137Bpa 2 L188Bpa 2	0,01832	1
	A137Bpa 2 L188Bpa 0	0,84928	0
	A137Bpa 2 F187Azi 2	0,97769	0
	A137Bpa 2 F187Azi 0	0,82183	0
	A137Bpa 2 L185Bpa 2	0,92597	0
	A137Bpa 2 L185Bpa 0	0,93433	0
	A137Bpa 2 V181Bpa 2	0,90615	0

	A1378pa 2 V1818pa 0	0,97443	0
	A1378pa 2 S1798pa 2	0,95773	0
	A1378pa 2 S1798pa 0	0,90623	0
	A1378pa 2 W1768pa 2	0,00452	1
	A1378pa 2 W1768pa 0	0,88031	0
	A1378pa 2 L1748pa 2	0,99746	0
	A1378pa 2 L1748pa 0	0,87505	0
	A1378pa 2 L1308pa 2	0,99935	0
	A1378pa 2 L1308pa 0	0,9765	0
	A1378pa 2 H1348pa 2	0,98288	0
	A1378pa 2 H1348pa 0	0,94363	0
	A1378pa 2 F1368pa 2	1	0
	A1378pa 2 F1368pa 0	0,88499	0
	A1378pa 0 A2358pa 2	0,91652	0
	A1378pa 0 A2358pa 0	1	0
	A1378pa 0 S2398pa 2	0,31571	0
	A1378pa 0 S2398pa 0	0,21135	0
	A1378pa 0 M2438pa 2	0,83527	0
	A1378pa 0 M2438pa 0	1	0
	A1378pa 0 P2458pa 2	0,04197	1
	A1378pa 0 P2458pa 0	0,99993	0
	A1378pa 0 F2508pa 2	0,24855	0
	A1378pa 0 F2508pa 0	0,84563	0
	A1378pa 0 A2548pa 2	6,84E-06	1
	A1378pa 0 A2548pa 0	0,9966	0
	A1378pa 0 L1948pa 2	0,98967	0
	A1378pa 0 L1948pa 0	0,95084	0
	A1378pa 0 V1918pa 2	1	0
	A1378pa 0 V1918pa 0	0,99997	0
	A1378pa 0 L1888pa 2	0,00639	1
	A1378pa 0 L1888pa 0	1	0
	A1378pa 0 F187Azi 2	0,03857	1
	A1378pa 0 F187Azi 0	1	0
	A1378pa 0 L1858pa 2	0,99656	0
	A1378pa 0 L1858pa 0	0,98239	0
	A1378pa 0 V1818pa 2	0,04662	1
	A1378pa 0 V1818pa 0	0,76763	0
	A1378pa 0 S1798pa 2	0,77532	0
	A1378pa 0 S1798pa 0	1	0
	A1378pa 0 W1768pa 2	1,41E-04	1
	A1378pa 0 W1768pa 0	1	0
	A1378pa 0 L1748pa 2	1	0
	A1378pa 0 L1748pa 0	1	0
	A1378pa 0 L1308pa 2	0,9695	0
	A1378pa 0 L1308pa 0	0,31562	0
	A1378pa 0 H1348pa 2	0,91217	0
	A1378pa 0 H1348pa 0	0,12002	0
	A1378pa 0 F1368pa 2	0,09959	0
	A1378pa 0 F1368pa 0	0,93598	0
	A1378pa 0 A1378pa 2	0,82813	0
	L1388pa 2 A2358pa 2	0,97764	0
	L1388pa 2 A2358pa 0	0,45532	0
	L1388pa 2 S2398pa 2	1	0
	L1388pa 2 S2398pa 0	0,96504	0
	L1388pa 2 M2438pa 2	1	0
	L1388pa 2 M2438pa 0	0,64809	0
	L1388pa 2 P2458pa 2	0,89155	0
	L1388pa 2 P2458pa 0	1	0
	L1388pa 2 F2508pa 2	0,27204	0
	L1388pa 2 F2508pa 0	0,99995	0
	L1388pa 2 A2548pa 2	9,40E-06	1
	L1388pa 2 A2548pa 0	1	0
	L1388pa 2 L1948pa 2	0,99971	0
	L1388pa 2 L1948pa 0	0,99814	0
	L1388pa 2 V1918pa 2	0,55085	0
	L1388pa 2 V1918pa 0	1	0
	L1388pa 2 L1888pa 2	0,007	1
	L1388pa 2 L1888pa 0	0,93821	0
	L1388pa 2 F187Azi 2	0,99956	0
	L1388pa 2 F187Azi 0	0,21251	0
	L1388pa 2 L1858pa 2	1	0
	L1388pa 2 L1858pa 0	1	0
	L1388pa 2 V1818pa 2	0,06456	0
	L1388pa 2 V1818pa 0	1	0
	L1388pa 2 S1798pa 2	1	0
	L1388pa 2 S1798pa 0	1	0
	L1388pa 2 W1768pa 2	1,85E-04	1
	L1388pa 2 W1768pa 0	1	0
	L1388pa 2 L1748pa 2	1	0
	L1388pa 2 L1748pa 0	0,99961	0
	L1388pa 2 L1308pa 2	0,99996	0
	L1388pa 2 L1308pa 0	1	0
	L1388pa 2 H1348pa 2	1	0
	L1388pa 2 H1348pa 0	1	0
	L1388pa 2 F1368pa 2	0,29754	0
	L1388pa 2 F1368pa 0	0,99973	0
	L1388pa 2 A1378pa 2	0,93244	0
	L1388pa 2 A1378pa 0	0,23279	0
	L1388pa 0 A2358pa 2	0,96229	0
	L1388pa 0 A2358pa 0	0,99999	0
	L1388pa 0 S2398pa 2	0,99934	0
	L1388pa 0 S2398pa 0	0,87722	0
	L1388pa 0 M2438pa 2	1	0
	L1388pa 0 M2438pa 0	1	0
	L1388pa 0 P2458pa 2	0,74678	0
	L1388pa 0 P2458pa 0	1	0
	L1388pa 0 F2508pa 2	0,26275	0
	L1388pa 0 F2508pa 0	0,99859	0
	L1388pa 0 A2548pa 2	8,26E-06	1
	L1388pa 0 A2548pa 0	1	0
	L1388pa 0 L1948pa 2	0,99877	0
	L1388pa 0 L1948pa 0	0,99309	0
	L1388pa 0 V1918pa 2	1	0
	L1388pa 0 V1918pa 0	1	0
	L1388pa 0 L1888pa 2	0,00675	1
	L1388pa 0 L1888pa 0	1	0
	L1388pa 0 F187Azi 2	0,98602	0
	L1388pa 0 F187Azi 0	0,99996	0
	L1388pa 0 L1858pa 2	1	0
	L1388pa 0 L1858pa 0	1	0
	L1388pa 0 V1818pa 2	0,05725	0
	L1388pa 0 V1818pa 0	0,99999	0
	L1388pa 0 S1798pa 2	1	0
	L1388pa 0 S1798pa 0	1	0
	L1388pa 0 W1768pa 2	1,66E-04	1
	L1388pa 0 W1768pa 0	1	0
	L1388pa 0 L1748pa 2	1	0

	H1348pa after UV O1+STIM1 before TG	1	0
	H1348pa after UV O1+STIM1 after TG	0,19711	0
	H1348pa after UV L1308pa before UV	1	0
	H1348pa after UV L1308pa after UV	1	0
	H1348pa after UV H1348pa before UV	0,85855	0
	F1368pa before UV O1 before UV	0,77055	0
	F1368pa before UV O1 after UV	0,89164	0
	F1368pa before UV O1+STIM1 before TG	0,95544	0
	F1368pa before UV O1+STIM1 after TG	0,23734	0
	F1368pa before UV L1308pa before UV	0,99833	0
	F1368pa before UV L1308pa after UV	0,9989	0
	F1368pa before UV H1348pa before UV	0,60141	0
	F1368pa before UV H1348pa after UV	0,99902	0
	F1368pa after UV O1 before UV	0,07113	0
	F1368pa after UV O1 after UV	0,11326	0
	F1368pa after UV O1+STIM1 before TG	0,16385	0
	F1368pa after UV O1+STIM1 after TG	0,29918	0
	F1368pa after UV L1308pa before UV	0,38246	0
	F1368pa after UV L1308pa after UV	0,38243	0
	F1368pa after UV H1348pa before UV	0,04306	1
	F1368pa after UV H1348pa after UV	0,36142	0
	F1368pa after UV F1368pa before UV	0,99998	0
	A1378pa before UV O1 before UV	0,45353	0
	A1378pa before UV O1 after UV	0,50111	0
	A1378pa before UV O1+STIM1 before TG	0,56079	0
	A1378pa before UV O1+STIM1 after TG	0,64831	0
	A1378pa before UV L1308pa before UV	0,59924	0
	A1378pa before UV L1308pa after UV	0,6226	0
	A1378pa before UV H1348pa before UV	0,42873	0
	A1378pa before UV H1348pa after UV	0,6536	0
	A1378pa before UV F1368pa before UV	0,9306	0
	A1378pa before UV F1368pa after UV	0,99904	0
	A1378pa after UV O1 before UV	0	1
	A1378pa after UV O1 after UV	0	1
	A1378pa after UV O1+STIM1 before TG	0	1
	A1378pa after UV O1+STIM1 after TG	0,99976	0
	A1378pa after UV L1308pa before UV	0	1
	A1378pa after UV L1308pa after UV	0	1
	A1378pa after UV H1348pa before UV	0	1
	A1378pa after UV H1348pa after UV	0	1
	A1378pa after UV F1368pa before UV	0	1
	A1378pa after UV F1368pa after UV	0	1
	A1378pa after UV A1378pa before UV	8,20E-06	1
	L1388pa before UV O1 before UV	1	0
	L1388pa before UV O1 after UV	1	0
	L1388pa before UV O1+STIM1 before TG	0,61672	0
	L1388pa before UV O1+STIM1 after TG	0,16887	0
	L1388pa before UV L1308pa before UV	0,99997	0
	L1388pa before UV L1308pa after UV	0,98797	0
	L1388pa before UV H1348pa before UV	1	0
	L1388pa before UV H1348pa after UV	0,06896	0
	L1388pa before UV F1368pa before UV	0,31184	0
	L1388pa before UV F1368pa after UV	0,01782	1
	L1388pa before UV A1378pa before UV	0,37852	0
	L1388pa before UV A1378pa after UV	0	1
	L1388pa after UV O1 before UV	1	0
	L1388pa after UV O1 after UV	1	0
	L1388pa after UV O1+STIM1 before TG	1	0
	L1388pa after UV O1+STIM1 after TG	0,18226	0
	L1388pa after UV L1308pa before UV	1	0
	L1388pa after UV L1308pa after UV	1	0
	L1388pa after UV H1348pa before UV	1	0
	L1388pa after UV H1348pa after UV	0,97807	0
	L1388pa after UV F1368pa before UV	0,81635	0
	L1388pa after UV F1368pa after UV	0,08646	0
	L1388pa after UV A1378pa before UV	0,5088	0
	L1388pa after UV A1378pa after UV	0	1
	L1388pa after UV L1388pa before UV	0,22521	0
	L1948pa before UV O1 before UV	1	0
	L1948pa before UV O1 after UV	1	0
	L1948pa before UV O1+STIM1 before TG	1	0
	L1948pa before UV O1+STIM1 after TG	0,20701	0
	L1948pa before UV L1308pa before UV	1	0
	L1948pa before UV L1308pa after UV	1	0
	L1948pa before UV H1348pa before UV	1	0
	L1948pa before UV H1348pa after UV	1	0
	L1948pa before UV F1368pa before UV	1	0
	L1948pa before UV F1368pa after UV	0,97496	0
	L1948pa before UV A1378pa before UV	0,79314	0
	L1948pa before UV A1378pa after UV	0	1
	L1948pa before UV L1388pa before UV	0,99978	0
	L1948pa before UV L1388pa after UV	1	0
	L1948pa after UV O1 before UV	0,96577	0
	L1948pa after UV O1 after UV	0,97928	0
	L1948pa after UV O1+STIM1 before TG	0,98956	0
	L1948pa after UV O1+STIM1 after TG	0,33082	0
	L1948pa after UV L1308pa before UV	0,99463	0
	L1948pa after UV L1308pa after UV	0,99607	0
	L1948pa after UV H1348pa before UV	0,95508	0
	L1948pa after UV H1348pa after UV	0,99745	0
	L1948pa after UV F1368pa before UV	1	0
	L1948pa after UV F1368pa after UV	1	0
	L1948pa after UV A1378pa before UV	0,99999	0
	L1948pa after UV A1378pa after UV	7,70E-08	1
	L1948pa after UV L1388pa before UV	0,92731	0
	L1948pa after UV L1388pa after UV	0,97988	0
	L1948pa after UV L1948pa before UV	0,99994	0
	V1918pa before UV O1 before UV	0,99986	0
	V1918pa before UV O1 after UV	0,96538	0
	V1918pa before UV O1+STIM1 before TG	0,08603	0
	V1918pa before UV O1+STIM1 after TG	0,16134	0
	V1918pa before UV L1308pa before UV	0,98337	0
	V1918pa before UV L1308pa after UV	0,71404	0
	V1918pa before UV H1348pa before UV	0,99417	0
	V1918pa before UV H1348pa after UV	0,00407	1
	V1918pa before UV F1368pa before UV	0,12024	0
	V1918pa before UV F1368pa after UV	0,00632	1
	V1918pa before UV A1378pa before UV	0,30925	0
	V1918pa before UV A1378pa after UV	0	1
	V1918pa before UV L1388pa before UV	0,5701	0
	V1918pa before UV L1388pa after UV	3,45E-05	1
	V1918pa before UV L1948pa before UV	0,99348	0
	V1918pa before UV L1948pa after UV	0,87279	0
	V1918pa after UV O1 before UV	1	0
	V1918pa after UV O1 after UV	1	0
	V1918pa after UV O1+STIM1 before TG	0,97554	0
	V1918pa after UV O1+STIM1 after TG	0,17441	0

	V1918pa after UV L1308pa before UV	1	0
	V1918pa after UV L1308pa after UV	0,99992	0
	V1918pa after UV H1348pa before UV	1	0
	V1918pa after UV H1348pa after UV	0,32982	0
	V1918pa after UV F1368pa before UV	0,51333	0
	V1918pa after UV F1368pa after UV	0,03509	1
	V1918pa after UV A1378pa before UV	0,43148	0
	V1918pa after UV A1378pa after UV	0	1
	V1918pa after UV L1388pa before UV	0,99923	0
	V1918pa after UV L1388pa after UV	0,98705	0
	V1918pa after UV L1948pa before UV	1	0
	V1918pa after UV L1948pa after UV	0,9549	0
	V1918pa after UV V1918pa before UV	0,00185	1
	L1888pa before UV O1 before UV	0,00797	1
	L1888pa before UV O1 after UV	0,00838	1
	L1888pa before UV O1+STIM1 before TG	0,00898	1
	L1888pa before UV O1+STIM1 after TG	1	0
	L1888pa before UV L1308pa before UV	0,0091	1
	L1888pa before UV L1308pa after UV	0,00941	1
	L1888pa before UV H1348pa before UV	0,00782	1
	L1888pa before UV H1348pa after UV	0,00986	1
	L1888pa before UV F1368pa before UV	0,01382	1
	L1888pa before UV F1368pa after UV	0,02154	1
	L1888pa before UV A1378pa before UV	0,12754	0
	L1888pa before UV A1378pa after UV	0,9999	0
	L1888pa before UV L1388pa before UV	0,00746	1
	L1888pa before UV L1388pa after UV	0,00856	1
	L1888pa before UV L1948pa before UV	0,01063	1
	L1888pa before UV L1948pa after UV	0,02591	1
	L1888pa before UV V1918pa before UV	0,00688	1
	L1888pa before UV V1918pa after UV	0,00791	1
	L1888pa after UV O1 before UV	0,02496	1
	L1888pa after UV O1 after UV	0,02667	1
	L1888pa after UV O1+STIM1 before TG	0,02911	1
	L1888pa after UV O1+STIM1 after TG	1	0
	L1888pa after UV L1308pa before UV	0,02984	1
	L1888pa after UV L1308pa after UV	0,03108	1
	L1888pa after UV H1348pa before UV	0,0243	1
	L1888pa after UV H1348pa after UV	0,03289	1
	L1888pa after UV F1368pa before UV	0,05166	0
	L1888pa after UV F1368pa after UV	0,09143	0
	L1888pa after UV A1378pa before UV	0,66955	0
	L1888pa after UV A1378pa after UV	0,33147	0
	L1888pa after UV L1388pa before UV	0,0228	1
	L1888pa after UV L1388pa after UV	0,0273	1
	L1888pa after UV L1948pa before UV	0,03731	1
	L1888pa after UV L1948pa after UV	0,12826	0
	L1888pa after UV V1918pa before UV	0,02048	1
	L1888pa after UV V1918pa after UV	0,0246	1
	L1888pa after UV L1888pa before UV	0,99995	0
	F1878pa before UV O1 before UV	1	0
	F1878pa before UV O1 after UV	1	0
	F1878pa before UV O1+STIM1 before TG	0,99974	0
	F1878pa before UV O1+STIM1 after TG	0,17626	0
	F1878pa before UV L1308pa before UV	1	0
	F1878pa before UV L1308pa after UV	1	0
	F1878pa before UV H1348pa before UV	1	0
	F1878pa before UV H1348pa after UV	0,68174	0
	F1878pa before UV F1368pa before UV	0,61502	0
	F1878pa before UV F1368pa after UV	0,04644	1
	F1878pa before UV A1378pa before UV	0,45077	0
	F1878pa before UV A1378pa after UV	0	1
	F1878pa before UV L1388pa before UV	0,99969	0
	F1878pa before UV L1388pa after UV	1	0
	F1878pa before UV L1948pa before UV	1	0
	F1878pa before UV L1948pa after UV	0,96287	0
	F1878pa before UV V1918pa before UV	0,09289	0
	F1878pa before UV V1918pa after UV	1	0
	F1878pa before UV L1888pa before UV	0,00805	1
	F1878pa before UV L1888pa after UV	0,02522	1
	F1878pa after UV O1 before UV	0,00528	1
	F1878pa after UV O1 after UV	0,00599	1
	F1878pa after UV O1+STIM1 before TG	0,00703	1
	F1878pa after UV O1+STIM1 after TG	0,99978	0
	F1878pa after UV L1308pa before UV	0,00755	1
	F1878pa after UV L1308pa after UV	0,00809	1
	F1878pa after UV H1348pa before UV	0,00498	1
	F1878pa after UV H1348pa after UV	0,00888	1
	F1878pa after UV F1368pa before UV	0,02155	1
	F1878pa after UV F1368pa after UV	0,06131	0
	F1878pa after UV A1378pa before UV	0,9235	0
	F1878pa after UV A1378pa after UV	0,03621	1
	F1878pa after UV L1388pa before UV	0,00437	1
	F1878pa after UV L1388pa after UV	0,00619	1
	F1878pa after UV L1948pa before UV	0,01227	1
	F1878pa after UV L1948pa after UV	0,13138	0
	F1878pa after UV V1918pa before UV	0,00355	1
	F1878pa after UV V1918pa after UV	0,00506	1
	F1878pa after UV L1888pa before UV	0,97422	0
	F1878pa after UV L1888pa after UV	1	0
	F1878pa after UV F1878pa before UV	0,00532	1
	L1858pa before UV O1 before UV	1	0
	L1858pa before UV O1 after UV	1	0
	L1858pa before UV O1+STIM1 before TG	0,74829	0
	L1858pa before UV O1+STIM1 after TG	—	1
	L1858pa before UV L1308pa before UV	0,99996	0
	L1858pa before UV L1308pa after UV	0,98885	0
	L1858pa before UV H1348pa before UV	1	0
	L1858pa before UV H1348pa after UV	0,11488	0
	L1858pa before UV F1368pa before UV	0,30794	0
	L1858pa before UV F1368pa after UV	0,01701	1
	L1858pa before UV A1378pa before UV	0,37019	0
	L1858pa before UV A1378pa after UV	0	1
	L1858pa before UV L1388pa before UV	1	0
	L1858pa before UV L1388pa after UV	0,68894	0
	L1858pa before UV L1948pa before UV	0,99971	0
	L1858pa before UV L1948pa after UV	0,92259	0
	L1858pa before UV V1918pa before UV	0,99982	0
	L1858pa before UV V1918pa after UV	0,99998	0
	L1858pa before UV L1888pa before UV	0,00737	1
	L1858pa before UV L1888pa after UV	0,02246	1
	L1858pa before UV F1878pa before UV	0,99995	0
	L1858pa before UV F1878pa after UV	0,00426	1
	L1858pa after UV O1 before UV	1	0
	L1858pa after UV O1 after UV	1	0
	L1858pa after UV O1+STIM1 before TG	1	0
	L1858pa after UV O1+STIM1 after TG	0,18915	0

	L1858pa after UV L1308pa before UV	1	0
	L1858pa after UV L1308pa after UV	1	0
	L1858pa after UV H1348pa before UV	0,99983	0
	L1858pa after UV H1348pa after UV	1	0
	L1858pa after UV F1368pa before UV	0,9804	0
	L1858pa after UV F1368pa after UV	0,20906	0
	L1858pa after UV A1378pa before UV	0,58111	0
	L1858pa after UV A1378pa after UV	0	1
	L1858pa after UV L1388pa before UV	0,72044	0
	L1858pa after UV L1388pa after UV	1	0
	L1858pa after UV L1948pa before UV	1	0
	L1858pa after UV L1948pa after UV	0,99217	0
	L1858pa after UV V1918pa before UV	0,10806	0
	L1858pa after UV V1918pa after UV	0,98864	0
	L1858pa after UV L1888pa before UV	0,00914	1
	L1858pa after UV L1888pa after UV	0,02982	1
	L1858pa after UV F1878pa before UV	0,99981	0
	L1858pa after UV F1878pa after UV	0,00738	1
	L1858pa after UV L1858pa before UV	0,80598	0
	V1818pa before UV O1 before UV	0,09113	0
	V1818pa before UV O1 after UV	0,10717	0
	V1818pa before UV O1+STIM1 before TG	0,12962	0
	V1818pa before UV O1+STIM1 after TG	0,68418	0
	V1818pa before UV L1308pa before UV	0,14849	0
	V1818pa before UV L1308pa after UV	0,15879	0
	V1818pa before UV H1348pa before UV	0,08319	0
	V1818pa before UV H1348pa after UV	0,17318	0
	V1818pa before UV F1368pa before UV	0,47202	0
	V1818pa before UV F1368pa after UV	0,89219	0
	V1818pa before UV A1378pa before UV	1	0
	V1818pa before UV A1378pa after UV	1,04E-05	1
	V1818pa before UV L1388pa before UV	0,06873	0
	V1818pa before UV L1388pa after UV	0,10931	0
	V1818pa before UV L1948pa before UV	0,28733	0
	V1818pa before UV L1948pa after UV	0,99424	0
	V1818pa before UV V1918pa before UV	0,0515	0
	V1818pa before UV V1918pa after UV	0,08378	0
	V1818pa before UV L1888pa before UV	0,14695	0
	V1818pa before UV L1888pa after UV	0,7137	0
	V1818pa before UV F1878pa before UV	0,08977	0
	V1818pa before UV F1878pa after UV	0,94685	0
	V1818pa before UV L1858pa before UV	0,06656	0
	V1818pa before UV L1858pa after UV	0,1384	0
	V1818pa after UV O1 before UV	2,82E-06	1
	V1818pa after UV O1 after UV	3,17E-06	1
	V1818pa after UV O1+STIM1 before TG	3,74E-06	1
	V1818pa after UV O1+STIM1 after TG	1	0
	V1818pa after UV L1308pa before UV	3,79E-06	1
	V1818pa after UV L1308pa after UV	4,12E-06	1
	V1818pa after UV H1348pa before UV	2,71E-06	1
	V1818pa after UV H1348pa after UV	4,62E-06	1
	V1818pa after UV F1368pa before UV	9,70E-06	1
	V1818pa after UV F1368pa after UV	2,64E-05	1
	V1818pa after UV A1378pa before UV	0,00315	1
	V1818pa after UV A1378pa after UV	0,98475	0
	V1818pa after UV L1388pa before UV	2,45E-06	1
	V1818pa after UV L1388pa after UV	3,36E-06	1
	V1818pa after UV L1948pa before UV	5,32E-06	1
	V1818pa after UV L1948pa after UV	5,01E-05	1
	V1818pa after UV V1918pa before UV	2,03E-06	1
	V1818pa after UV V1918pa after UV	2,79E-06	1
	V1818pa after UV L1888pa before UV	1	0
	V1818pa after UV L1888pa after UV	0,99997	0
	V1818pa after UV F1878pa before UV	2,91E-06	1
	V1818pa after UV F1878pa after UV	0,93292	0
	V1818pa after UV L1858pa before UV	2,38E-06	1
	V1818pa after UV L1858pa after UV	3,89E-06	1
	V1818pa after UV V1818pa before UV	0,00392	1
	S1798pa before UV O1 before UV	1	0
	S1798pa before UV O1 after UV	1	0
	S1798pa before UV O1+STIM1 before TG	0,9796	0
	S1798pa before UV O1+STIM1 after TG	0,17193	0
	S1798pa before UV L1308pa before UV	1	0
	S1798pa before UV L1308pa after UV	0,99968	0
	S1798pa before UV H1348pa before UV	1	0
	S1798pa before UV H1348pa after UV	0,39436	0
	S1798pa before UV F1368pa before UV	0,46241	0
	S1798pa before UV F1368pa after UV	0,02913	1
	S1798pa before UV A1378pa before UV	0,40979	0
	S1798pa before UV A1378pa after UV	0	1
	S1798pa before UV L1388pa before UV	1	0
	S1798pa before UV L1388pa after UV	0,99462	0
	S1798pa before UV L1948pa before UV	0,99999	0
	S1798pa before UV L1948pa after UV	0,9454	0
	S1798pa before UV V1918pa before UV	0,90044	0
	S1798pa before UV V1918pa after UV	1	0
	S1798pa before UV L1888pa before UV	0,0077	1
	S1798pa before UV L1888pa after UV	0,02379	1
	S1798pa before UV F1878pa before UV	1	0
	S1798pa before UV F1878pa after UV	0,00476	1
	S1798pa before UV L1858pa before UV	1	0
	S1798pa before UV L1858pa after UV	0,98558	0
	S1798pa before UV V1818pa before UV	0,07748	0
	S1798pa before UV V1818pa after UV	2,62E-06	1
	S1798pa after UV O1 before UV	1	0
	S1798pa after UV O1 after UV	1	0
	S1798pa after UV O1+STIM1 before TG	1	0
	S1798pa after UV O1+STIM1 after TG	0,18229	0
	S1798pa after UV L1308pa before UV	1	0
	S1798pa after UV L1308pa after UV	1	0
	S1798pa after UV H1348pa before UV	1	0
	S1798pa after UV H1348pa after UV	0,99475	0
	S1798pa after UV F1368pa before UV	0,83677	0
	S1798pa after UV F1368pa after UV	0,09211	0
	S1798pa after UV A1378pa before UV	0,51041	0
	S1798pa after UV A1378pa after UV	0	1
	S1798pa after UV L1388pa before UV	0,71872	0
	S1798pa after UV L1388pa after UV	1	0
	S1798pa after UV L1948pa before UV	1	0
	S1798pa after UV L1948pa after UV	0,9804	0
	S1798pa after UV V1918pa before UV	0,02167	1
	S1798pa after UV V1918pa after UV	0,99961	0
	S1798pa after UV L1888pa before UV	0,00856	1
	S1798pa after UV L1888pa after UV	0,02731	1
	S1798pa after UV F1878pa before UV	1	0
	S1798pa after UV F1878pa after UV	0,00621	1
	S1798pa after UV L1858pa before UV	0,89969	0

S1798pa after UV L1858pa after UV	1	0
S1798pa after UV V1818pa before UV	0,10997	0
S1798pa after UV V1818pa after UV	3,36E-06	1
S1798pa after UV S1798pa before UV	0,99952	0
W1768pa before UV O1 before UV	2,46E-04	1
W1768pa before UV O1 after UV	2,85E-04	1
W1768pa before UV O1+STIM1 before TG	3,45E-04	1
W1768pa before UV O1+STIM1 after TG	0,99989	0
W1768pa before UV L1308pa before UV	3,68E-04	1
W1768pa before UV L1308pa after UV	4,02E-04	1
W1768pa before UV H1348pa before UV	2,31E-04	1
W1768pa before UV H1348pa after UV	4,53E-04	1
W1768pa before UV F1368pa before UV	0,00128	1
W1768pa before UV F1368pa after UV	0,00483	1
W1768pa before UV A1378pa before UV	0,62375	0
W1768pa before UV A1378pa after UV	0,03314	1
W1768pa before UV L1388pa before UV	2,02E-04	1
W1768pa before UV L1388pa after UV	2,99E-04	1
W1768pa before UV L1948pa before UV	6,41E-04	1
W1768pa before UV L1948pa after UV	0,01624	1
W1768pa before UV V1918pa before UV	1,58E-04	1
W1768pa before UV V1918pa after UV	2,37E-04	1
W1768pa before UV L1888pa before UV	0,97879	0
W1768pa before UV L1888pa after UV	1	0
W1768pa before UV F1878pa before UV	2,51E-04	1
W1768pa before UV F1878pa after UV	1	0
W1768pa before UV L1858pa before UV	1,94E-04	1
W1768pa before UV L1858pa after UV	3,65E-04	1
W1768pa before UV V1818pa before UV	0,66511	0
W1768pa before UV V1818pa after UV	0,93546	0
W1768pa before UV S1798pa before UV	2,20E-04	1
W1768pa before UV S1798pa after UV	2,99E-04	1
W1768pa after UV O1 before UV	0,0068	1
W1768pa after UV O1 after UV	0,00802	1
W1768pa after UV O1+STIM1 before TG	0,00984	1
W1768pa after UV O1+STIM1 after TG	0,93838	0
W1768pa after UV L1308pa before UV	0,011	1
W1768pa after UV L1308pa after UV	0,01194	1
W1768pa after UV H1348pa before UV	0,00627	1
W1768pa after UV H1348pa after UV	0,01334	1
W1768pa after UV F1368pa before UV	0,04358	1
W1768pa after UV F1368pa after UV	0,16122	0
W1768pa after UV A1378pa before UV	0,99999	0
W1768pa after UV A1378pa after UV	4,48E-04	1
W1768pa after UV L1388pa before UV	0,00526	1
W1768pa after UV L1388pa after UV	--	1
W1768pa after UV L1948pa before UV	0,02199	1
W1768pa after UV L1948pa after UV	0,42455	0
W1768pa after UV V1918pa before UV	0,004	1
W1768pa after UV V1918pa after UV	0,00638	1
W1768pa after UV L1888pa before UV	0,49551	0
W1768pa after UV L1888pa after UV	0,99773	0
W1768pa after UV F1878pa before UV	0,00682	1
W1768pa after UV F1878pa after UV	1	0
W1768pa after UV L1858pa before UV	0,00509	1
W1768pa after UV L1858pa after UV	0,0105	1
W1768pa after UV V1818pa before UV	1	0
W1768pa after UV V1818pa after UV	0,11185	0
W1768pa after UV S1798pa before UV	0,00589	1
W1768pa after UV S1798pa after UV	0,00834	1
W1768pa after UV W1768pa before UV	0,99996	0
L1748pa before UV O1 before UV	1	0
L1748pa before UV O1 after UV	1	0
L1748pa before UV O1+STIM1 before TG	1	0
L1748pa before UV O1+STIM1 after TG	0,18122	0
L1748pa before UV L1308pa before UV	1	0
L1748pa before UV L1308pa after UV	1	0
L1748pa before UV H1348pa before UV	1	0
L1748pa before UV H1348pa after UV	1	0
L1748pa before UV F1368pa before UV	0,99224	0
L1748pa before UV F1368pa after UV	0,36068	0
L1748pa before UV A1378pa before UV	0,54014	0
L1748pa before UV A1378pa after UV	0	1
L1748pa before UV L1388pa before UV	1	0
L1748pa before UV L1388pa after UV	1	0
L1748pa before UV L1948pa before UV	1	0
L1748pa before UV L1948pa after UV	0,98887	0
L1748pa before UV V1918pa before UV	1	0
L1748pa before UV V1918pa after UV	1	0
L1748pa before UV L1888pa before UV	0,00839	1
L1748pa before UV L1888pa after UV	0,02699	1
L1748pa before UV F1878pa before UV	1	0
L1748pa before UV F1878pa after UV	0,00638	1
L1748pa before UV L1858pa before UV	1	0
L1748pa before UV L1858pa after UV	1	0
L1748pa before UV V1818pa before UV	0,12476	0
L1748pa before UV V1818pa after UV	3,11E-06	1
L1748pa before UV S1798pa before UV	1	0
L1748pa before UV S1798pa after UV	1	0
L1748pa before UV W1768pa before UV	2,98E-04	1
L1748pa before UV W1768pa after UV	0,00896	1
L1748pa after UV O1 before UV	0,18134	0
L1748pa after UV O1 after UV	0,18789	0
L1748pa after UV O1+STIM1 before TG	0,19684	0
L1748pa after UV O1+STIM1 after TG	1	0
L1748pa after UV L1308pa before UV	0,19957	0
L1748pa after UV L1308pa after UV	0,20389	0
L1748pa after UV H1348pa before UV	--	1
L1748pa after UV H1348pa after UV	0,21003	0
L1748pa after UV F1368pa before UV	0,26537	0
L1748pa after UV F1368pa after UV	0,35186	0
L1748pa after UV A1378pa before UV	0,80519	0
L1748pa after UV A1378pa after UV	0,97295	0
L1748pa after UV L1388pa before UV	0,17258	0
L1748pa after UV L1388pa after UV	0,1902	0
L1748pa after UV L1948pa before UV	0,22435	0
L1748pa after UV L1948pa after UV	0,40117	0
L1748pa after UV V1918pa before UV	0,1628	0
L1748pa after UV V1918pa after UV	0,17984	0
L1748pa after UV L1888pa before UV	1	0
L1748pa after UV L1888pa after UV	1	0
L1748pa after UV F1878pa before UV	0,18228	0
L1748pa after UV F1878pa after UV	1	0
L1748pa after UV L1858pa before UV	0,1712	0
L1748pa after UV L1858pa after UV	0,1994	0
L1748pa after UV V1818pa before UV	0,83817	0
L1748pa after UV V1818pa after UV	1	0

	L1748pa after UV S1798pa before UV	0,17661	0
	L1748pa after UV S1798pa after UV	0,19025	0
	L1748pa after UV W1768pa before UV	1	0
	L1748pa after UV W1768pa after UV	0,99329	0
	L1748pa after UV L1748pa before UV	0,18931	0
	A2358pa before UV O1 before UV	0,99758	0
	A2358pa before UV O1 after UV	0,99939	0
	A2358pa before UV O1+STIM1 before TG	0,99991	0
	A2358pa before UV O1+STIM1 after TG	0,25095	0
	A2358pa before UV L1308pa before UV	1	0
	A2358pa before UV L1308pa after UV	1	0
	A2358pa before UV H1348pa before UV	0,9946	0
	A2358pa before UV H1348pa after UV	1	0
	A2358pa before UV F1368pa before UV	1	0
	A2358pa before UV F1368pa after UV	1	0
	A2358pa before UV A1378pa before UV	0,98	0
	A2358pa before UV A1378pa after UV	1,43E-08	1
	A2358pa before UV L1388pa before UV	0,9807	0
	A2358pa before UV L1388pa after UV	0,99934	0
	A2358pa before UV L1948pa before UV	1	0
	A2358pa before UV L1948pa after UV	1	0
	A2358pa before UV V1918pa before UV	0,93302	0
	A2358pa before UV V1918pa after UV	0,99399	0
	A2358pa before UV L1888pa before UV	0,01511	1
	A2358pa before UV L1888pa after UV	0,06061	0
	A2358pa before UV F1878pa before UV	0,99646	0
	A2358pa before UV F1878pa after UV	0,03218	1
	A2358pa before UV L1858pa before UV	0,97822	0
	A2358pa before UV L1858pa after UV	0,99997	0
	A2358pa before UV V1818pa before UV	0,69274	0
	A2358pa before UV V1818pa after UV	1,18E-05	1
	A2358pa before UV S1798pa before UV	0,99063	0
	A2358pa before UV S1798pa after UV	0,9994	0
	A2358pa before UV W1768pa before UV	0,00212	1
	A2358pa before UV W1768pa after UV	0,08116	0
	A2358pa before UV L1748pa before UV	0,99993	0
	A2358pa before UV L1748pa after UV	0,28591	0
	A2358pa after UV O1 before UV	0,25429	0
	A2358pa after UV O1 after UV	0,3162	0
	A2358pa after UV O1+STIM1 before TG	0,3909	0
	A2358pa after UV O1+STIM1 after TG	0,34881	0
	A2358pa after UV L1308pa before UV	0,51217	0
	A2358pa after UV L1308pa after UV	0,53236	0
	A2358pa after UV H1348pa before UV	0,21479	0
	A2358pa after UV H1348pa after UV	0,55279	0
	A2358pa after UV F1368pa before UV	0,99642	0
	A2358pa after UV F1368pa after UV	1	0
	A2358pa after UV A1378pa before UV	1	0
	A2358pa after UV A1378pa after UV	1,01E-07	1
	A2358pa after UV L1388pa before UV	0,15535	0
	A2358pa after UV L1388pa after UV	0,30524	0
	A2358pa after UV L1948pa before UV	0,92181	0
	A2358pa after UV L1948pa after UV	1	0
	A2358pa after UV V1918pa before UV	0,09929	0
	A2358pa after UV V1918pa after UV	0,20842	0
	A2358pa after UV L1888pa before UV	0,02914	1
	A2358pa after UV L1888pa after UV	0,13691	0
	A2358pa after UV F1878pa before UV	0,23246	0
	A2358pa after UV F1878pa after UV	0,12884	0
	A2358pa after UV L1858pa before UV	0,14974	0
	A2358pa after UV L1858pa after UV	0,42922	0
	A2358pa after UV V1818pa before UV	0,99476	0
	A2358pa after UV V1818pa after UV	5,40E-05	1
	A2358pa after UV S1798pa before UV	0,18849	0
	A2358pa after UV S1798pa after UV	0,31032	0
	A2358pa after UV W1768pa before UV	0,01367	1
	A2358pa after UV W1768pa after UV	0,38382	0
	A2358pa after UV L1748pa before UV	0,45366	0
	A2358pa after UV L1748pa after UV	0,42285	0
	A2358pa after UV A2358pa before UV	1	0
	S2398pa before UV O1 before UV	1	0
	S2398pa before UV O1 after UV	1	0
	S2398pa before UV O1+STIM1 before TG	0,99978	0
	S2398pa before UV O1+STIM1 after TG	0,17545	0
	S2398pa before UV L1308pa before UV	1	0
	S2398pa before UV L1308pa after UV	1	0
	S2398pa before UV H1348pa before UV	1	0
	S2398pa before UV H1348pa after UV	0,72322	0
	S2398pa before UV F1368pa before UV	0,60314	0
	S2398pa before UV F1368pa after UV	0,04439	1
	S2398pa before UV A1378pa before UV	0,4439	0
	S2398pa before UV A1378pa after UV	0	1
	S2398pa before UV L1388pa before UV	1	0
	S2398pa before UV L1388pa after UV	1	0
	S2398pa before UV L1948pa before UV	1	0
	S2398pa before UV L1948pa after UV	0,96047	0
	S2398pa before UV V1918pa before UV	0,48526	0
	S2398pa before UV V1918pa after UV	1	0
	S2398pa before UV L1888pa before UV	0,00799	1
	S2398pa before UV L1888pa after UV	0,02495	1
	S2398pa before UV F1878pa before UV	1	0
	S2398pa before UV F1878pa after UV	0,00522	1
	S2398pa before UV L1858pa before UV	1	0
	S2398pa before UV L1858pa after UV	0,9998	0
	S2398pa before UV V1818pa before UV	0,08767	0
	S2398pa before UV V1818pa after UV	2,85E-06	1
	S2398pa before UV S1798pa before UV	1	0
	S2398pa before UV S1798pa after UV	1	0
	S2398pa before UV W1768pa before UV	2,45E-04	1
	S2398pa before UV W1768pa after UV	0,00665	1
	S2398pa before UV L1748pa before UV	1	0
	S2398pa before UV L1748pa after UV	0,18123	0
	S2398pa before UV A2358pa before UV	0,99589	0
	S2398pa before UV A2358pa after UV	0,22605	0
	S2398pa after UV O1 before UV	0,63781	0
	S2398pa after UV O1 after UV	0,84285	0
	S2398pa after UV O1+STIM1 before TG	0,91844	0
	S2398pa after UV O1+STIM1 after TG	0,21865	0
	S2398pa after UV L1308pa before UV	0,9999	0
	S2398pa after UV L1308pa after UV	0,99995	0
	S2398pa after UV H1348pa before UV	0,29057	0
	S2398pa after UV H1348pa after UV	0,99989	0
	S2398pa after UV F1368pa before UV	1	0
	S2398pa after UV F1368pa after UV	0,9364	0
	S2398pa after UV A1378pa before UV	0,82785	0
	S2398pa after UV A1378pa after UV	0	1
	S2398pa after UV L1388pa before UV	0,02896	1

S2398pa after UV L1388pa after UV	0,4979	0
S2398pa after UV L1948pa before UV	1	0
S2398pa after UV L1948pa after UV	0,99999	0
S2398pa after UV V1918pa before UV	0,00295	1
S2398pa after UV V1918pa after UV	0,10981	0
S2398pa after UV L1888pa before UV	0,01191	1
S2398pa after UV L1888pa after UV	0,0422	1
S2398pa after UV F1878pa before UV	0,21104	0
S2398pa after UV F1878pa after UV	0,01435	1
S2398pa after UV L1858pa before UV	0,03453	1
S2398pa after UV L1858pa after UV	0,98051	0
S2398pa after UV V1818pa before UV	0,30457	0
S2398pa after UV V1818pa after UV	7,04E-06	1
S2398pa after UV S1798pa before UV	0,10342	0
S2398pa after UV S1798pa after UV	0,57969	0
S2398pa after UV W1768pa before UV	7,96E-04	1
S2398pa after UV W1768pa after UV	0,0251	1
S2398pa after UV L1748pa before UV	0,99828	0
S2398pa after UV L1748pa after UV	0,2393	0
S2398pa after UV A2358pa before UV	1	0
S2398pa after UV A2358pa after UV	0,89402	0
S2398pa after UV S2398pa before UV	0,21638	0
M2438pa before UV O1 before UV	1	0
M2438pa before UV O1 after UV	0,99984	0
M2438pa before UV O1+STIM1 before TG	0,35929	0
M2438pa before UV O1+STIM1 after TG	0,16617	0
M2438pa before UV L1308pa before UV	0,99952	0
M2438pa before UV L1308pa after UV	0,9468	0
M2438pa before UV H1348pa before UV	1	0
M2438pa before UV H1348pa after UV	0,02687	1
M2438pa before UV F1368pa before UV	0,23036	0
M2438pa before UV F1368pa after UV	0,0125	1
M2438pa before UV A1378pa before UV	0,35325	0
M2438pa before UV A1378pa after UV	0	1
M2438pa before UV L1388pa before UV	1	0
M2438pa before UV L1388pa after UV	0,03339	1
M2438pa before UV L1948pa before UV	0,99912	0
M2438pa before UV L1948pa after UV	0,91018	0
M2438pa before UV V1918pa before UV	0,98391	0
M2438pa before UV V1918pa after UV	0,75722	0
M2438pa before UV L1888pa before UV	0,00725	1
M2438pa before UV L1888pa after UV	0,02195	1
M2438pa before UV F1878pa before UV	0,93052	0
M2438pa before UV F1878pa after UV	0,00406	1
M2438pa before UV L1858pa before UV	1	0
M2438pa before UV L1858pa after UV	0,45596	0
M2438pa before UV V1818pa before UV	0,06215	0
M2438pa before UV V1818pa after UV	2,30E-06	1
M2438pa before UV S1798pa before UV	1	0
M2438pa before UV S1798pa after UV	0,32976	0
M2438pa before UV W1768pa before UV	1,84E-04	1
M2438pa before UV W1768pa after UV	0,00478	1
M2438pa before UV L1748pa before UV	1	0
M2438pa before UV L1748pa after UV	0,16906	0
M2438pa before UV A2358pa before UV	0,9686	0
M2438pa before UV A2358pa after UV	0,13321	0
M2438pa before UV S2398pa before UV	0,99697	0
M2438pa before UV S2398pa after UV	0,01365	1
M2438pa after UV O1 before UV	1	0
M2438pa after UV O1 after UV	1	0
M2438pa after UV O1+STIM1 before TG	1	0
M2438pa after UV O1+STIM1 after TG	0,18822	0
M2438pa after UV L1308pa before UV	1	0
M2438pa after UV L1308pa after UV	1	0
M2438pa after UV H1348pa before UV	0,99669	0
M2438pa after UV H1348pa after UV	1	0
M2438pa after UV F1368pa before UV	0,955	0
M2438pa after UV F1368pa after UV	0,16322	0
M2438pa after UV A1378pa before UV	0,56806	0
M2438pa after UV A1378pa after UV	0	1
M2438pa after UV L1388pa before UV	0,13423	0
M2438pa after UV L1388pa after UV	1	0
M2438pa after UV L1948pa before UV	1	0
M2438pa after UV L1948pa after UV	0,99038	0
M2438pa after UV V1918pa before UV	0,00378	1
M2438pa after UV V1918pa after UV	0,68024	0
M2438pa after UV L1888pa before UV	0,00907	1
M2438pa after UV L1888pa after UV	0,02947	1
M2438pa after UV F1878pa before UV	0,98466	0
M2438pa after UV F1878pa after UV	0,00718	1
M2438pa after UV L1858pa before UV	0,31302	0
M2438pa after UV L1858pa after UV	1	0
M2438pa after UV V1818pa before UV	0,13245	0
M2438pa after UV V1818pa after UV	3,83E-06	1
M2438pa after UV S1798pa before UV	0,81513	0
M2438pa after UV S1798pa after UV	1	0
M2438pa after UV W1768pa before UV	3,55E-04	1
M2438pa after UV W1768pa after UV	0,01009	1
M2438pa after UV L1748pa before UV	1	0
M2438pa after UV L1748pa after UV	0,19812	0
M2438pa after UV A2358pa before UV	0,99993	0
M2438pa after UV A2358pa after UV	0,38674	0
M2438pa after UV S2398pa before UV	0,99022	0
M2438pa after UV S2398pa after UV	0,89588	0
M2438pa after UV M2438pa before UV	0,04215	1
P2458pa before UV O1 before UV	1	0
P2458pa before UV O1 after UV	1	0
P2458pa before UV O1+STIM1 before TG	1	0
P2458pa before UV O1+STIM1 after TG	0,18238	0
P2458pa before UV L1308pa before UV	1	0
P2458pa before UV L1308pa after UV	1	0
P2458pa before UV H1348pa before UV	1	0
P2458pa before UV H1348pa after UV	0,99864	0
P2458pa before UV F1368pa before UV	0,85409	0
P2458pa before UV F1368pa after UV	0,09765	0
P2458pa before UV A1378pa before UV	0,51244	0
P2458pa before UV A1378pa after UV	0	1
P2458pa before UV L1388pa before UV	0,90222	0
P2458pa before UV L1388pa after UV	1	0
P2458pa before UV L1948pa before UV	1	0
P2458pa before UV L1948pa after UV	0,98098	0
P2458pa before UV V1918pa before UV	0,07357	0
P2458pa before UV V1918pa after UV	0,99999	0
P2458pa before UV L1888pa before UV	0,00856	1
P2458pa before UV L1888pa after UV	0,02735	1
P2458pa before UV F1878pa before UV	1	0
P2458pa before UV F1878pa after UV	0,00623	1

P2458pa before UV L1858pa before UV	0,96431	0
P2458pa before UV L1858pa after UV	1	0
P2458pa before UV V1818pa before UV	0,11078	0
P2458pa before UV V1818pa after UV	3,36E-06	1
P2458pa before UV S1798pa before UV	0,99994	0
P2458pa before UV S1798pa after UV	1	0
P2458pa before UV W1768pa before UV	3,00E-04	1
P2458pa before UV W1768pa after UV	0,00839	1
P2458pa before UV L1748pa before UV	1	0
P2458pa before UV L1748pa after UV	0,19038	0
P2458pa before UV A2358pa before UV	0,99946	0
P2458pa before UV A2358pa after UV	0,31552	0
P2458pa before UV S2398pa before UV	1	0
P2458pa before UV S2398pa after UV	0,64675	0
P2458pa before UV M2438pa before UV	0,58916	0
P2458pa before UV M2438pa after UV	1	0
P2458pa after UV O1 before UV	0,20317	0
P2458pa after UV O1 after UV	0,38879	0
P2458pa after UV O1+STIM1 before TG	0,37819	0
P2458pa after UV O1+STIM1 after TG	0,22061	0
P2458pa after UV L1308pa before UV	0,99624	0
P2458pa after UV L1308pa after UV	0,99572	0
P2458pa after UV H1348pa before UV	0,02719	1
P2458pa after UV H1348pa after UV	0,96374	0
P2458pa after UV F1368pa before UV	1	0
P2458pa after UV F1368pa after UV	0,92349	0
P2458pa after UV A1378pa before UV	0,83498	0
P2458pa after UV A1378pa after UV	0	1
P2458pa after UV L1388pa before UV	1,10E-04	1
P2458pa after UV L1388pa after UV	0,02419	1
P2458pa after UV L1948pa before UV	1	0
P2458pa after UV L1948pa after UV	1	0
P2458pa after UV V1918pa before UV	5,34E-06	1
P2458pa after UV V1918pa after UV	9,88E-04	1
P2458pa after UV L1888pa before UV	0,01213	1
P2458pa after UV L1888pa after UV	0,04307	1
P2458pa after UV F1878pa before UV	0,00382	1
P2458pa after UV F1878pa after UV	0,01479	1
P2458pa after UV L1858pa before UV	1,88E-04	1
P2458pa after UV L1858pa after UV	0,66522	0
P2458pa after UV V1818pa before UV	0,31027	0
P2458pa after UV V1818pa after UV	7,37E-06	1
P2458pa after UV S1798pa before UV	0,00141	1
P2458pa after UV S1798pa after UV	0,04882	1
P2458pa after UV W1768pa before UV	8,29E-04	1
P2458pa after UV W1768pa after UV	0,02591	1
P2458pa after UV L1748pa before UV	0,98556	0
P2458pa after UV L1748pa after UV	0,24187	0
P2458pa after UV A2358pa before UV	1	0
P2458pa after UV A2358pa after UV	0,89161	0
P2458pa after UV S2398pa before UV	0,00501	1
P2458pa after UV S2398pa after UV	1	0
P2458pa after UV M2438pa before UV	3,80E-05	1
P2458pa after UV M2438pa after UV	0,24984	0
P2458pa after UV P2458pa before UV	0,07919	0
F2508pa before UV O1 before UV	0,30465	0
F2508pa before UV O1 after UV	0,31922	0
F2508pa before UV O1+STIM1 before TG	0,33882	0
F2508pa before UV O1+STIM1 after TG	1	0
F2508pa before UV L1308pa before UV	0,34619	0
F2508pa before UV L1308pa after UV	0,35536	0
F2508pa before UV H1348pa before UV	0,29843	0
F2508pa before UV H1348pa after UV	0,36825	0
F2508pa before UV F1368pa before UV	0,49132	0
F2508pa before UV F1368pa after UV	0,66132	0
F2508pa before UV A1378pa before UV	0,99776	0
F2508pa before UV A1378pa after UV	0,19625	0
F2508pa before UV L1388pa before UV	0,28443	0
F2508pa before UV L1388pa after UV	0,32377	0
F2508pa before UV L1948pa before UV	0,40471	0
F2508pa before UV L1948pa after UV	0,75505	0
F2508pa before UV V1918pa before UV	0,26269	0
F2508pa before UV V1918pa after UV	0,3006	0
F2508pa before UV L1888pa before UV	0,99746	0
F2508pa before UV L1888pa after UV	1	0
F2508pa before UV F1878pa before UV	0,30613	0
F2508pa before UV F1878pa after UV	1	0
F2508pa before UV L1858pa before UV	0,28147	0
F2508pa before UV L1858pa after UV	0,34467	0
F2508pa before UV V1818pa before UV	0,99902	0
F2508pa before UV V1818pa after UV	0,99625	0
F2508pa before UV S1798pa before UV	0,29354	0
F2508pa before UV S1798pa after UV	0,32396	0
F2508pa before UV W1768pa before UV	1	0
F2508pa before UV W1768pa after UV	1	0
F2508pa before UV L1748pa before UV	0,32426	0
F2508pa before UV L1748pa after UV	1	0
F2508pa before UV A2358pa before UV	0,54114	0
F2508pa before UV A2358pa after UV	0,77772	0
F2508pa before UV S2398pa before UV	0,30384	0
F2508pa before UV S2398pa after UV	0,43338	0
F2508pa before UV M2438pa before UV	0,2766	0
F2508pa before UV M2438pa after UV	0,34155	0
F2508pa before UV P2458pa before UV	0,32434	0
F2508pa before UV P2458pa after UV	0,43846	0
F2508pa after UV O1 before UV	0,94308	0
F2508pa after UV O1 after UV	0,9527	0
F2508pa after UV O1+STIM1 before TG	0,96331	0
F2508pa after UV O1+STIM1 after TG	0,81956	0
F2508pa after UV L1308pa before UV	0,96724	0
F2508pa after UV L1308pa after UV	0,97097	0
F2508pa after UV H1348pa before UV	0,93826	0
F2508pa after UV H1348pa after UV	0,97558	0
F2508pa after UV F1368pa before UV	0,9968	0
F2508pa after UV F1368pa after UV	0,99995	0
F2508pa after UV A1378pa before UV	1	0
F2508pa after UV A1378pa after UV	3,06E-04	1
F2508pa after UV L1388pa before UV	0,92643	0
F2508pa after UV L1388pa after UV	0,95513	0
F2508pa after UV L1948pa before UV	0,98637	0
F2508pa after UV L1948pa after UV	1	0
F2508pa after UV V1918pa before UV	0,90473	0
F2508pa after UV V1918pa after UV	0,93968	0
F2508pa after UV L1888pa before UV	0,30552	0
F2508pa after UV L1888pa after UV	0,95516	0
F2508pa after UV F1878pa before UV	0,94377	0
F2508pa after UV F1878pa after UV	0,99916	0

				F2508pa after UV L1858pa before UV	0,92383	0
				F2508pa after UV L1858pa after UV	0,96614	0
				F2508pa after UV V1818pa before UV	1	0
				F2508pa after UV V1818pa after UV	0,07088	0
				F2508pa after UV S1798pa before UV	0,93425	0
				F2508pa after UV S1798pa after UV	0,95528	0
				F2508pa after UV W1768pa before UV	0,98574	0
				F2508pa after UV W1768pa after UV	1	0
				F2508pa after UV L1748pa before UV	0,95654	0
				F2508pa after UV L1748pa after UV	0,9451	0
				F2508pa after UV A2358pa before UV	0,99886	0
				F2508pa after UV A2358pa after UV	1	0
				F2508pa after UV S2398pa before UV	0,94216	0
				F2508pa after UV S2398pa after UV	0,99102	0
				F2508pa after UV M2438pa before UV	0,91917	0
				F2508pa after UV M2438pa after UV	0,96459	0
				F2508pa after UV P2458pa before UV	0,95553	0
				F2508pa after UV P2458pa after UV	0,9917	0
				F2508pa after UV F2508pa before UV	0,99999	0
				A2548pa before UV O1 before UV	1,30E-05	1
				A2548pa before UV O1 after UV	1,55E-05	1
				A2548pa before UV O1+STIM1 before TG	1,96E-05	1
				A2548pa before UV O1+STIM1 after TG	0,99993	0
				A2548pa before UV L1308pa before UV	2,11E-05	1
				A2548pa before UV L1308pa after UV	2,34E-05	1
				A2548pa before UV H1348pa before UV	1,21E-05	1
				A2548pa before UV H1348pa after UV	2,72E-05	1
				A2548pa before UV F1368pa before UV	9,47E-05	1
				A2548pa before UV F1368pa after UV	4,79E-04	1
				A2548pa before UV A1378pa before UV	0,39347	0
				A2548pa before UV A1378pa after UV	0,03307	1
				A2548pa before UV L1388pa before UV	1,03E-05	1
				A2548pa before UV L1388pa after UV	1,66E-05	1
				A2548pa before UV L1948pa before UV	4,15E-05	1
				A2548pa before UV L1948pa after UV	0,00284	1
				A2548pa before UV V1918pa before UV	7,72E-06	1
				A2548pa before UV V1918pa after UV	1,25E-05	1
				A2548pa before UV L1888pa before UV	0,98238	0
				A2548pa before UV L1888pa after UV	1	0
				A2548pa before UV F1878pa before UV	1,34E-05	1
				A2548pa before UV F1878pa after UV	1	0
				A2548pa before UV L1858pa before UV	9,82E-06	1
				A2548pa before UV L1858pa after UV	2,09E-05	1
				A2548pa before UV V1818pa before UV	0,42303	0
				A2548pa before UV V1818pa after UV	0,94258	0
				A2548pa before UV S1798pa before UV	1,15E-05	1
				A2548pa before UV S1798pa after UV	1,66E-05	1
				A2548pa before UV W1768pa before UV	1	0
				A2548pa before UV W1768pa after UV	0,99936	0
				A2548pa before UV L1748pa before UV	1,63E-05	1
				A2548pa before UV L1748pa after UV	1	0
				A2548pa before UV A2358pa before UV	1,85E-04	1
				A2548pa before UV A2358pa after UV	0,00185	1
				A2548pa before UV S2398pa before UV	1,30E-05	1
				A2548pa before UV S2398pa after UV	5,34E-05	1
				A2548pa before UV M2438pa before UV	9,27E-06	1
				A2548pa before UV M2438pa after UV	2,03E-05	1
				A2548pa before UV P2458pa before UV	1,66E-05	1
				A2548pa before UV P2458pa after UV	5,62E-05	1
				A2548pa before UV F2508pa before UV	1	0
				A2548pa before UV F2508pa after UV	0,95782	0
				A2548pa after UV O1 before UV	0,05814	0
				A2548pa after UV O1 after UV	0,0754	0
				A2548pa after UV O1+STIM1 before TG	0,09984	0
				A2548pa after UV O1+STIM1 after TG	0,48124	0
				A2548pa after UV L1308pa before UV	0,13497	0
				A2548pa after UV L1308pa after UV	0,14532	0
				A2548pa after UV H1348pa before UV	0,04875	1
				A2548pa after UV H1348pa after UV	0,15873	0
				A2548pa after UV F1368pa before UV	0,69008	0
				A2548pa after UV F1368pa after UV	0,99811	0
				A2548pa after UV A1378pa before UV	1	0
				A2548pa after UV A1378pa after UV	7,07E-07	1
				A2548pa after UV L1388pa before UV	0,03456	1
				A2548pa after UV L1388pa after UV	0,07455	0
				A2548pa after UV L1948pa before UV	0,4103	0
				A2548pa after UV L1948pa after UV	1	0
				A2548pa after UV V1918pa before UV	0,02129	1
				A2548pa after UV V1918pa after UV	0,04798	1
				A2548pa after UV L1888pa before UV	0,05858	0
				A2548pa after UV L1888pa after UV	0,31157	0
				A2548pa after UV F1878pa before UV	0,05411	0
				A2548pa after UV F1878pa after UV	0,44699	0
				A2548pa after UV L1858pa before UV	0,03303	1
				A2548pa after UV L1858pa after UV	0,11186	0
				A2548pa after UV V1818pa before UV	1	0
				A2548pa after UV V1818pa after UV	2,98E-04	1
				A2548pa after UV S1798pa before UV	0,04257	1
				A2548pa after UV S1798pa after UV	0,07572	0
				A2548pa after UV W1768pa before UV	0,10083	0
				A2548pa after UV W1768pa after UV	0,92581	0
				A2548pa after UV L1748pa before UV	0,11083	0
				A2548pa after UV L1748pa after UV	0,60403	0
				A2548pa after UV A2358pa before UV	0,94661	0
				A2548pa after UV A2358pa after UV	1	0
				A2548pa after UV S2398pa before UV	0,05225	0
				A2548pa after UV S2398pa after UV	0,38096	0
				A2548pa after UV M2438pa before UV	0,02921	1
				A2548pa after UV M2438pa after UV	0,10244	0
				A2548pa after UV P2458pa before UV	0,07698	0
				A2548pa after UV P2458pa after UV	0,38302	0
				A2548pa after UV F2508pa before UV	0,94922	0
				A2548pa after UV F2508pa after UV	1	0
				A2548pa after UV A2548pa before UV	0,02541	1
S3j	Welch-ANOVA	3,85E-09	F(6, 16.91)=40.4	0,7 0,5	8,07E-05	1
				1 0,5	3,89E-05	1
				1 0,7	0,53902	0
				1,4 0,5	1,74E-04	1
				1,4 0,7	0,00266	1
				1,4 1	0,37823	0
				1,8 0,5	4,78E-05	1
				1,8 0,7	3,36E-04	1
				1,8 1	0,12948	0
				1,8 1,4	0,38986	0
				2,2 0,5	2,92E-05	1

S3k	Welch-ANOVA	0,91757	F(6, 18.35)=0,32	2,2 0,7	2,18E-05	1
				2,2 1	0,02276	1
				2,2 1,4	0,00273	1
				2,2 1,8	0,22542	0
				4 0,5	1,69E-05	1
				4 0,7	0,00561	1
				4 1	0,05989	0
				4 1,4	0,27365	0
				4 1,8	0,61222	0
				4 2,2	0,99925	0
				0,7 0,5	0,99852	0
				1 0,5	0,99895	0
				1 0,7	0,98009	0
				1,4 0,5	1	0
				1,4 0,7	0,99929	0
S4e	Welch-ANOVA	2,65E-07	F(7, 26.77)=13,32	1,4 1	0,99859	0
				1,8 0,5	0,94059	0
				1,8 0,7	0,99928	0
				1,8 1	0,8498	0
				1,8 1,4	0,95816	0
				2,2 0,5	0,99938	0
				2,2 0,7	1	0
				2,2 1	0,99123	0
				2,2 1,4	0,99966	0
				2,2 1,8	0,99984	0
				4 0,5	0,99575	0
				4 0,7	0,99954	0
				4 1	0,98804	0
				4 1,4	0,99642	0
				4 1,8	0,99999	0
				4 2,2	0,99973	0
S4g	one-way ANOVA	<0.0001	F(6, 37)=16,11	0,5 0	1	0
				1 0	0,2782	0
				1 0,5	0,40043	0
				1,5 0	0,21566	0
				1,5 0,5	0,22591	0
				1,5 1	0,68009	0
				2 0	0,17989	0
				2 0,5	0,18698	0
				2 1	0,51059	0
				2 1,5	0,99828	0
				10 0	1,06E-05	1
				10 0,5	1,16E-05	1
				10 1	1,67E-04	1
				10 1,5	0,10588	0
				10 2	0,54355	0
S4g	one-way ANOVA	<0.0001	F(6, 37)=16,11	20 0	0,0082	1
				20 0,5	0,00801	1
				20 1	0,01381	1
				20 1,5	0,04068	1
				20 2	0,09753	0
				20 10	0,55898	0
				110 0	0,05955	0
				110 0,5	0,05973	0
				110 1	0,08528	0
				110 1,5	0,16213	0
				110 2	0,24006	0
				110 10	0,6016	0
				110 20	0,99744	0
				0,7 0,5	0,10828	0
				1 0,5	0,00678	1
S4g	one-way ANOVA	<0.0001	F(6, 37)=16,11	1 0,7	0,2414	0
				1,4 0,5	4,24E-04	1
				1,4 0,7	0,04313	1
				1,4 1	0,39559	0
				1,8 0,5	<0.0001	1
				1,8 0,7	0,00128	1
				1,8 1	0,02183	1
				1,8 1,4	0,09885	0
				2,2 0,5	<0.0001	1
				2,2 0,7	<0.0001	1
				2,2 1	0,00105	1
				2,2 1,4	0,00739	1
				2,2 1,8	0,43422	0
				5 0,5	<0.0001	1
				5 0,7	<0.0001	1
S4g	one-way ANOVA	<0.0001	F(6, 37)=16,11	5 1	<0.0001	1
				5 1,4	1,47E-04	1
				5 1,8	0,03047	1
				5 2,2	0,09004	0
S6e	Welch-ANOVA	0,000446631	F(4, 29,942)=6,932	S1/O1 DKO HEK293	0,96629	0
				S1/S2 DKO HEK293	0,28365	0
				S1/S2 DKO S1/O1 DKO	0,47008	0
				O1/O2/O3 TKO HEK293	0,03706	1
				O1/O2/O3 TKO S1/O1 DKO	0,04206	1
				O1/O2/O3 TKO S1/S2 DKO	0,32121	0
				RBL 2H3 HEK293	0,02155	1
				RBL 2H3 S1/O1 DKO	0,01708	1
				RBL 2H3 S1/S2 DKO	0,06652	0
				RBL 2H3 O1/O2/O3 TKO	0,99936	0
				A137Bpa -UV WT	0,02677	1
				A137Bpa +UV WT	0,99214	0
				A137Bpa +UV A137Bpa -UV	0,04638	1
				A137Bpa +S1 t=0 WT	0,01685	1
				A137Bpa +S1 t=0 A137Bpa -UV	0,05062	0
S6h	Welch-ANOVA	0	F(15, 31.96)=111.47	A137Bpa +S1 t=0 A137Bpa +UV	0,03793	1
				A137Bpa+S1 -UV WT	0,76272	0
				A137Bpa+S1 -UV A137Bpa -UV	0,56615	0
				A137Bpa+S1 -UV A137Bpa +UV	0,27516	0
				A137Bpa+S1 -UV A137Bpa +S1 t=0	0,42674	0
				A137Bpa+S1+UV WT	1	0
				A137Bpa+S1+UV A137Bpa -UV	0,06086	0
				A137Bpa+S1+UV A137Bpa +UV	0,97748	0
				A137Bpa+S1+UV A137Bpa +S1 t=0	0,04838	1
				A137Bpa+S1+UV A137Bpa+S1 -UV	0,66298	0
				L1748Bpa -UV WT	0,01951	1
				L1748Bpa -UV A137Bpa -UV	0,72486	0
				L1748Bpa -UV A137Bpa +UV	0,04015	1
				L1748Bpa -UV A137Bpa +S1 t=0	0,98126	0
				L1748Bpa -UV A137Bpa+S1 -UV	0,47147	0
				L1748Bpa -UV A137Bpa+S1+UV	0,05109	0

				L1748pa +UV WT	0,12614	0
				L1748pa +UV A1378pa -UV	0,36278	0
				L1748pa +UV A1378pa +UV	0,08591	0
				L1748pa +UV A1378pa+S1 t=0	0,16924	0
				L1748pa +UV A1378pa+S1 -UV	0,9862	0
				L1748pa +UV A1378pa+S1+UV	0,12933	0
				L1748pa +UV L1748pa -UV	0,21591	0
				L1748pa +S1 t=0 WT	0,01729	1
				L1748pa +S1 t=0 A1378pa -UV	0,06871	0
				L1748pa +S1 t=0 A1378pa +UV	0,03833	1
				L1748pa +S1 t=0 A1378pa+S1 t=0	1	0
				L1748pa +S1 t=0 A1378pa+S1 -UV	0,43404	0
				L1748pa +S1 t=0 A1378pa+S1+UV	0,04891	1
				L1748pa +S1 t=0 L1748pa -UV	0,99755	0
				L1748pa +S1 t=0 L1748pa +UV	0,17602	0
				L1748pa+S1 -UV WT	0,9536	0
				L1748pa+S1 -UV A1378pa -UV	0,00458	1
				L1748pa+S1 -UV A1378pa +UV	1	0
				L1748pa+S1 -UV A1378pa+S1 t=0	0,0036	1
				L1748pa+S1 -UV A1378pa+S1 -UV	0,09094	0
				L1748pa+S1 -UV A1378pa+S1+UV	0,87498	0
				L1748pa+S1 -UV L1748pa -UV	0,00372	1
				L1748pa+S1 -UV L1748pa +UV	0,00775	1
				L1748pa+S1 -UV L1748pa+S1 t=0	0,00363	1
				L1748pa+S1+UV WT	0,5799	0
				L1748pa+S1+UV A1378pa -UV	0,01625	1
				L1748pa+S1+UV A1378pa +UV	0,99412	0
				L1748pa+S1+UV A1378pa+S1 t=0	0,01346	1
				L1748pa+S1+UV A1378pa+S1 -UV	0,07033	0
				L1748pa+S1+UV A1378pa+S1+UV	0,49547	0
				L1748pa+S1+UV L1748pa -UV	0,01417	1
				L1748pa+S1+UV L1748pa +UV	0,02747	1
				L1748pa+S1+UV L1748pa+S1 t=0	0,01359	1
				L1748pa+S1+UV L1748pa+S1 -UV	0,98878	0
				A254Azi -UV WT	0,0188	1
				A254Azi -UV A1378pa -UV	0,15767	0
				A254Azi -UV A1378pa +UV	0,0398	1
				A254Azi -UV A1378pa+S1 t=0	0,61585	0
				A254Azi -UV A1378pa+S1 -UV	0,45654	0
				A254Azi -UV A1378pa+S1+UV	0,05118	0
				A254Azi -UV L1748pa -UV	1	0
				A254Azi -UV L1748pa +UV	0,20129	0
				A254Azi -UV L1748pa+S1 t=0	0,9728	0
				A254Azi -UV L1748pa+S1 -UV	0,00383	1
				A254Azi -UV L1748pa+S1+UV	0,01409	1
				A254Azi +UV WT	1,78E-04	1
				A254Azi +UV A1378pa -UV	0	1
				A254Azi +UV A1378pa +UV	0,04271	1
				A254Azi +UV A1378pa+S1 t=0	0	1
				A254Azi +UV A1378pa+S1 -UV	0,0011	1
				A254Azi +UV A1378pa+S1+UV	0,00321	1
				A254Azi +UV L1748pa -UV	0	1
				A254Azi +UV L1748pa +UV	0	1
				A254Azi +UV L1748pa+S1 t=0	0	1
				A254Azi +UV L1748pa+S1 -UV	0,00346	1
				A254Azi +UV L1748pa+S1+UV	0,27882	0
				A254Azi +UV A254Azi -UV	0	1
				A254Azi +S1 t=0 WT	0,01983	1
				A254Azi +S1 t=0 A1378pa -UV	0,34487	0
				A254Azi +S1 t=0 A1378pa +UV	0,04071	1
				A254Azi +S1 t=0 A1378pa+S1 t=0	0,49539	0
				A254Azi +S1 t=0 A1378pa+S1 -UV	0,47254	0
				A254Azi +S1 t=0 A1378pa+S1+UV	0,05244	0
				A254Azi +S1 t=0 L1748pa -UV	1	0
				A254Azi +S1 t=0 L1748pa +UV	0,21954	0
				A254Azi +S1 t=0 L1748pa+S1 t=0	0,8594	0
				A254Azi +S1 t=0 L1748pa+S1 -UV	0,00392	1
				A254Azi +S1 t=0 L1748pa+S1+UV	0,01439	1
				A254Azi +S1 t=0 A254Azi -UV	0,99978	0
				A254Azi +S1 t=0 A254Azi +UV	0	1
				A254Azi+S1 -UV WT	0,98165	0
				A254Azi+S1 -UV A1378pa -UV	0,01985	1
				A254Azi+S1 -UV A1378pa +UV	1	0
				A254Azi+S1 -UV A1378pa+S1 t=0	0,01526	1
				A254Azi+S1 -UV A1378pa+S1 -UV	0,20528	0
				A254Azi+S1 -UV A1378pa+S1+UV	0,95545	0
				A254Azi+S1 -UV L1748pa -UV	0,01646	1
				A254Azi+S1 -UV L1748pa +UV	0,0449	1
				A254Azi+S1 -UV L1748pa+S1 t=0	0,01547	1
				A254Azi+S1 -UV L1748pa+S1 -UV	1	0
				A254Azi+S1 -UV L1748pa+S1+UV	0,99859	0
				A254Azi+S1 -UV A254Azi -UV	0,01625	1
				A254Azi+S1 -UV A254Azi +UV	0,02887	1
				A254Azi+S1 -UV A254Azi+S1 t=0	0,01674	1
				A254Azi+S1+UV WT	0,78591	0
				A254Azi+S1+UV A1378pa -UV	0,01342	1
				A254Azi+S1+UV A1378pa +UV	0,99991	0
				A254Azi+S1+UV A1378pa+S1 t=0	0,01064	1
				A254Azi+S1+UV A1378pa+S1 -UV	0,09626	0
				A254Azi+S1+UV A1378pa+S1+UV	0,69568	0
				A254Azi+S1+UV L1748pa -UV	0,01136	1
				A254Azi+S1+UV L1748pa +UV	0,02661	1
				A254Azi+S1+UV L1748pa+S1 t=0	0,01077	1
				A254Azi+S1+UV L1748pa+S1 -UV	0,99986	0
				A254Azi+S1+UV L1748pa+S1+UV	1	0
				A254Azi+S1+UV A254Azi -UV	0,01125	1
				A254Azi+S1+UV A254Azi +UV	0,12068	0
				A254Azi+S1+UV A254Azi+S1 t=0	0,01155	1
				A254Azi+S1+UV A254Azi+S1 -UV	0,99999	0
S8a	Man-Whitney test	0,02374 0,04533 0,00217		A1378pa ANSGA + STIM1 after UV-light - A1378pa ANSGA + STIM before UV-light A254Azi + STIM1 after UV-light - A254Azi + STIM1 before UV-light A254Azi ANSGA + STIM1 is after UV-light - A254Azi ANSGA + STIM1 before UV-light		
S8a STIM1+ A1378pa XXX	Welch-ANOVA	6,64E-07	F(11, 20.08)=13.30	+ - A1378pa V102A - - A1378pa V102A - + A1378pa V102A + - A1378pa V102A + + A1378pa V102A + A1378pa V102A - A1378pa H134A - - A1378pa H134A - + A1378pa H134A - A1378pa V102A - A1378pa H134A - A1378pa V102A + A1378pa H134A + - A1378pa H134A + +	0,82924 0,96128 0,53713 0,93468 0,48873 1 0,00846 0,0837 0,7153 0,57176 0,0134 0,09928	0 0 0 0 0 0 1 1 0 0 1 1

S8a STIM1+ L174Bpa XXX	Welch-ANOVA	1,88E-07	F(11, 32.27)=9.82	A137Bpa H134A + A137Bpa V102A -	0,82306	0
				A137Bpa H134A + A137Bpa V102A +	0,70177	0
				A137Bpa H134A + A137Bpa H134A -	0,84054	0
				A137Bpa V181K - -	0,00674	1
				A137Bpa V181K - +	0,06651	0
				A137Bpa V181K - A137Bpa V102A -	0,54139	0
				A137Bpa V181K - A137Bpa V102A +	0,39319	0
				A137Bpa V181K - A137Bpa H134A -	0,24811	0
				A137Bpa V181K - A137Bpa H134A +	0,00405	1
				A137Bpa V181K + -	0,00681	1
				A137Bpa V181K + +	0,06733	0
				A137Bpa V181K + A137Bpa V102A -	0,55031	0
				A137Bpa V181K + A137Bpa V102A +	0,40156	0
				A137Bpa V181K + A137Bpa H134A -	0,30926	0
				A137Bpa V181K + A137Bpa H134A +	0,00457	1
				A137Bpa V181K + A137Bpa V181K -	0,99999	0
				A137Bpa P245L - -	0,00602	1
				A137Bpa P245L - +	0,06359	0
				A137Bpa P245L - A137Bpa V102A -	0,51185	0
				A137Bpa P245L - A137Bpa V102A +	0,36595	0
				A137Bpa P245L - A137Bpa H134A -	0,14044	0
				A137Bpa P245L - A137Bpa H134A +	0,00222	1
				A137Bpa P245L - A137Bpa V181K -	0,9304	0
				A137Bpa P245L - A137Bpa V181K +	0,87039	0
				A137Bpa P245L + -	0,00702	1
				A137Bpa P245L + +	0,07175	0
				A137Bpa P245L + A137Bpa V102A -	0,59962	0
				A137Bpa P245L + A137Bpa V102A +	0,44931	0
				A137Bpa P245L + A137Bpa H134A -	0,82508	0
				A137Bpa P245L + A137Bpa H134A +	0,07668	0
				A137Bpa P245L + A137Bpa V181K -	0,87227	0
				A137Bpa P245L + A137Bpa V181K +	0,94974	0
				A137Bpa P245L + A137Bpa P245L -	0,64366	0
				A137Bpa ANSGA - -	0,01215	1
				A137Bpa ANSGA - +	0,11265	0
				A137Bpa ANSGA - A137Bpa V102A -	0,91488	0
				A137Bpa ANSGA - A137Bpa V102A +	0,83779	0
				A137Bpa ANSGA - A137Bpa H134A -	0,87482	0
				A137Bpa ANSGA - A137Bpa H134A +	0,99925	0
				A137Bpa ANSGA - A137Bpa V181K -	0,25692	0
				A137Bpa ANSGA - A137Bpa V181K +	0,27794	0
				A137Bpa ANSGA - A137Bpa P245L -	0,19963	0
				A137Bpa ANSGA - A137Bpa P245L +	0,43197	0
				A137Bpa ANSGA + -	0,23929	0
				A137Bpa ANSGA + +	0,73775	0
				A137Bpa ANSGA + A137Bpa V102A -	0,13461	0
				A137Bpa ANSGA + A137Bpa V102A +	0,13173	0
				A137Bpa ANSGA + A137Bpa H134A -	0,05774	0
				A137Bpa ANSGA + A137Bpa H134A +	0,06374	0
				A137Bpa ANSGA + A137Bpa V181K -	0,05048	0
				A137Bpa ANSGA + A137Bpa V181K +	0,05084	0
				A137Bpa ANSGA + A137Bpa P245L -	0,04916	1
				A137Bpa ANSGA + A137Bpa P245L +	0,05278	0
				A137Bpa ANSGA + A137Bpa ANSGA -	0,06801	0
				+ -	0,94136	0
				L1748pa V102A - -	0,28475	0
				L1748pa V102A - +	0,01032	1
				L1748pa V102A + -	0,42072	0
				L1748pa V102A + +	0,01684	1
				L1748pa V102A + L1748pa V102A -	0,99999	0
				L1748pa H134A - -	0,23064	0
				L1748pa H134A - +	0,01409	1
				L1748pa H134A - L1748pa V102A -	1	0
				L1748pa H134A - L1748pa V102A +	0,99671	0
				L1748pa H134A + -	0,24107	0
				L1748pa H134A + +	0,01521	1
				L1748pa H134A + L1748pa V102A -	1	0
				L1748pa H134A + L1748pa V102A +	0,99856	0
				L1748pa H134A + L1748pa H134A -	1	0
				L1748pa V181K - -	0,99999	0
				L1748pa V181K - +	0,5646	0
				L1748pa V181K - L1748pa V102A -	0,19384	0
				L1748pa V181K - L1748pa V102A +	0,40693	0
				L1748pa V181K - L1748pa H134A -	0,11367	0
				L1748pa V181K - L1748pa H134A +	0,12318	0
				L1748pa V181K + -	1	0
				L1748pa V181K + +	0,6687	0
				L1748pa V181K + L1748pa V102A -	0,1119	0
				L1748pa V181K + L1748pa V102A +	0,26775	0
				L1748pa V181K + L1748pa H134A -	0,06458	0
				L1748pa V181K + L1748pa H134A +	0,07048	0
				L1748pa V181K + L1748pa V181K -	1	0
				L1748pa P245L - -	0,99988	0
				L1748pa P245L - +	0,40881	0
				L1748pa P245L - L1748pa V102A -	0,12263	0
				L1748pa P245L - L1748pa V102A +	0,35219	0
				L1748pa P245L - L1748pa H134A -	0,04735	1
				L1748pa P245L - L1748pa H134A +	0,05307	0
				L1748pa P245L - L1748pa V181K -	1	0
				L1748pa P245L - L1748pa V181K +	1	0
				L1748pa P245L + -	1	0
				L1748pa P245L + +	0,6438	0
				L1748pa P245L + L1748pa V102A -	0,08572	0
				L1748pa P245L + L1748pa V102A +	0,24478	0
				L1748pa P245L + L1748pa H134A -	0,03839	1
				L1748pa P245L + L1748pa H134A +	0,04271	1
				L1748pa P245L + L1748pa V181K -	1	0
				L1748pa P245L + L1748pa V181K +	1	0
				L1748pa P245L + L1748pa P245L -	1	0
				L1748pa ANSGA - -	0,96076	0
				L1748pa ANSGA - +	0,13825	0
				L1748pa ANSGA - L1748pa V102A -	0,55897	0
				L1748pa ANSGA - L1748pa V102A +	0,86685	0
				L1748pa ANSGA - L1748pa H134A -	0,30756	0
				L1748pa ANSGA - L1748pa H134A +	0,33352	0
				L1748pa ANSGA - L1748pa V181K -	0,99709	0
				L1748pa ANSGA - L1748pa V181K +	0,98084	0
				L1748pa ANSGA - L1748pa P245L -	0,99862	0
				L1748pa ANSGA - L1748pa P245L +	0,98278	0
				L1748pa ANSGA + -	1	0
				L1748pa ANSGA + +	0,91186	0
				L1748pa ANSGA + L1748pa V102A -	0,19005	0
				L1748pa ANSGA + L1748pa V102A +	0,34731	0
				L1748pa ANSGA + L1748pa H134A -	0,12771	0
				L1748pa ANSGA + L1748pa H134A +	0,13667	0

S8a STIM1+A254Azi XXX	Welch-ANOVA	1,18E-08	F(11, 25.27)=15.9	L1748pa ANSGA + L1748pa V181K -	1	0
				L1748pa ANSGA + L1748pa V181K +	1	0
				L1748pa ANSGA + L1748pa P245L -	0,99997	0
				L1748pa ANSGA + L1748pa P245L +	1	0
				L1748pa ANSGA + L1748pa ANSGA -	0,96925	0
				+	0,41097	0
				A254Azi V102A -	0,24865	0
				A254Azi V102A - +	0,02299	1
				A254Azi V102A - +	0,25859	0
				A254Azi V102A + +	0,02302	1
				A254Azi V102A + A254Azi V102A -	1	0
				A254Azi H134A -	0,21823	0
				A254Azi H134A - +	0,02977	1
				A254Azi H134A - A254Azi V102A -	1	0
				A254Azi H134A - A254Azi V102A +	1	0
				A254Azi H134A + -	0,20839	0
				A254Azi H134A + +	0,02943	1
				A254Azi H134A + A254Azi V102A -	1	0
				A254Azi H134A + A254Azi V102A +	1	0
				A254Azi H134A + A254Azi H134A -	1	0
				A254Azi V181K -	0,50297	0
				A254Azi V181K - +	0,03788	1
				A254Azi V181K - A254Azi V102A -	0,9993	0
				A254Azi V181K - A254Azi V102A +	0,99937	0
				A254Azi V181K - A254Azi H134A -	0,99975	0
				A254Azi V181K - A254Azi H134A +	0,99947	0
				A254Azi V181K + -	0,505	0
				A254Azi V181K + +	0,03815	1
				A254Azi V181K + A254Azi V102A -	0,9992	0
				A254Azi V181K + A254Azi V102A +	0,99928	0
				A254Azi V181K + A254Azi H134A -	0,99969	0
				A254Azi V181K + A254Azi H134A +	0,99936	0
				A254Azi V181K + A254Azi V181K -	1	0
				A254Azi P245L -	1	0
				A254Azi P245L - +	0,27266	0
				A254Azi P245L - A254Azi V102A -	0,06726	0
				A254Azi P245L - A254Azi V102A +	0,0792	0
				A254Azi P245L - A254Azi H134A -	0,00239	1
				A254Azi P245L - A254Azi H134A +	0,00193	1
				A254Azi P245L - A254Azi V181K -	0,15435	0
				A254Azi P245L - A254Azi V181K +	0,15372	0
				A254Azi P245L + -	1	0
				A254Azi P245L + +	0,34584	0
				A254Azi P245L + A254Azi V102A -	0,04237	1
				A254Azi P245L + A254Azi V102A +	0,0508	0
				A254Azi P245L + A254Azi H134A -	3,55E-04	1
				A254Azi P245L + A254Azi H134A +	2,61E-04	1
				A254Azi P245L + A254Azi V181K -	0,07694	0
				A254Azi P245L + A254Azi V181K +	0,07622	0
				A254Azi P245L + A254Azi P245L -	0,99985	0
				A254Azi ANSGA -	0,08704	0
				A254Azi ANSGA - +	0,01967	1
				A254Azi ANSGA - A254Azi V102A -	0,98838	0
				A254Azi ANSGA - A254Azi V102A +	0,99125	0
				A254Azi ANSGA - A254Azi H134A -	0,55689	0
				A254Azi ANSGA - A254Azi H134A +	0,56176	0
				A254Azi ANSGA - A254Azi V181K -	0,68152	0
				A254Azi ANSGA - A254Azi V181K +	0,66994	0
				A254Azi ANSGA - A254Azi P245L -	3,29E-04	1
				A254Azi ANSGA - A254Azi P245L +	3,90E-05	1
				A254Azi ANSGA + -	0,9112	0
				A254Azi ANSGA + +	1	0
				A254Azi ANSGA + A254Azi V102A -	0,21218	0
				A254Azi ANSGA + A254Azi V102A +	0,21331	0
				A254Azi ANSGA + A254Azi H134A -	0,22342	0
				A254Azi ANSGA + A254Azi H134A +	0,21885	0
				A254Azi ANSGA + A254Azi V181K -	0,31179	0
				A254Azi ANSGA + A254Azi V181K +	0,31296	0
				A254Azi ANSGA + A254Azi P245L -	0,84678	0
				A254Azi ANSGA + A254Azi P245L +	0,90587	0
				A254Azi ANSGA + A254Azi ANSGA -	0,13927	0
				V102A STIM1 V102A	<0.0001	1
				A1378pa V102A -UV V102A	5,29E-04	1
				A1378pa V102A -UV V102A STIM1	0,25971	0
				A1378pa V102A +UV V102A	0,00118	1
				A1378pa V102A +UV V102A STIM1	0,16457	0
				A1378pa V102A +UV A1378pa V102A -UV	0,79761	0
				A1378pa V102A+STIM1 -UV V102A	0,00535	1
				A1378pa V102A+STIM1 -UV V102A STIM1	0,05682	0
				A1378pa V102A+STIM1 -UV A1378pa V102A -UV	0,44314	0
				A1378pa V102A+STIM1 -UV A1378pa V102A +UV	0,60846	0
				A1378pa V102A +STIM1+UV V102A	0,01085	1
				A1378pa V102A +STIM1+UV V102A STIM1	0,0311	1
				A1378pa V102A +STIM1+UV A1378pa V102A -UV	0,30785	0
				A1378pa V102A +STIM1+UV A1378pa V102A +UV	0,44314	0
				A1378pa V102A +STIM1+UV A1378pa V102A+STIM1 -UV	0,79761	0
				L1748pa V102A -UV V102A	3,79E-04	1
				L1748pa V102A -UV V102A STIM1	0,53016	0
				L1748pa V102A -UV A1378pa V102A -UV	0,69249	0
				L1748pa V102A -UV A1378pa V102A +UV	0,52749	0
				L1748pa V102A -UV A1378pa V102A+STIM1 -UV	0,2712	0
				L1748pa V102A -UV A1378pa V102A +STIM1+UV	0,18301	0
				L1748pa V102A+UV V102A	4,87E-04	1
				L1748pa V102A+UV V102A STIM1	0,47777	0
				L1748pa V102A+UV A1378pa V102A -UV	0,75163	0
				L1748pa V102A+UV A1378pa V102A +UV	0,58015	0
				L1748pa V102A+UV A1378pa V102A+STIM1 -UV	0,30643	0
				L1748pa V102A+UV A1378pa V102A +STIM1+UV	0,20957	0
				L1748pa V102A+UV L1748pa V102A -UV	0,94097	0
				L1748pa V102A+STIM1 -UV V102A	0,0033	1
				L1748pa V102A+STIM1 -UV V102A STIM1	0,04391	1
				L1748pa V102A+STIM1 -UV A1378pa V102A -UV	0,41906	0
				L1748pa V102A+STIM1 -UV A1378pa V102A +UV	0,58928	0
				L1748pa V102A+STIM1 -UV A1378pa V102A+STIM1 -UV	1	0
				L1748pa V102A+STIM1 -UV L1748pa V102A -UV	0,78693	0
				L1748pa V102A+STIM1 -UV L1748pa V102A +UV	0,25016	0
				L1748pa V102A+STIM1 -UV L1748pa V102A+UV	0,28508	0
				L1748pa V102A+STIM1+UV V102A	0,0033	1
				L1748pa V102A+STIM1+UV V102A STIM1	0,04391	1
				L1748pa V102A+STIM1+UV A1378pa V102A -UV	0,41906	0
				L1748pa V102A+STIM1+UV A1378pa V102A +UV	0,58928	0
				L1748pa V102A+STIM1+UV A1378pa V102A+STIM1 -UV	1	0
				L1748pa V102A+STIM1+UV A1378pa V102A +STIM1+UV	0,78693	0

				L1748pa V102A+STIM1+UV L1748pa V102A-UV	0,25016	0
				L1748pa V102A+STIM1+UV L1748pa V102A+UV	0,28508	0
				L1748pa V102A+STIM1+UV L1748pa V102A+STIM1-UV	1	0
				A254Azi V102A -UV V102A	3,79E-04	1
				A254Azi V102A -UV V102A STIM1	0,53016	0
				A254Azi V102A -UV A1378pa V102A -UV	0,69249	0
				A254Azi V102A -UV A1378pa V102A +UV	0,52749	0
				A254Azi V102A -UV A1378pa V102A+STIM1 -UV	0,2712	0
				A254Azi V102A -UV A1378pa V102A +STIM1+UV	0,18301	0
				A254Azi V102A -UV L1748pa V102A-UV	1	0
				A254Azi V102A -UV L1748pa V102A+UV	0,94097	0
				A254Azi V102A -UV L1748pa V102A+STIM1-UV	0,25016	0
				A254Azi V102A -UV L1748pa V102A+STIM1+UV	0,25016	0
				A254Azi V102A +UV V102A	0,00164	1
				A254Azi V102A +UV V102A STIM1	0,26374	0
				A254Azi V102A +UV A1378pa V102A -UV	0,9369	0
				A254Azi V102A +UV A1378pa V102A +UV	0,87421	0
				A254Azi V102A +UV A1378pa V102A+STIM1 -UV	0,52749	0
				A254Azi V102A +UV A1378pa V102A +STIM1+UV	0,38598	0
				A254Azi V102A +UV L1748pa V102A-UV	0,65718	0
				A254Azi V102A +UV L1748pa V102A+UV	0,7114	0
				A254Azi V102A +UV L1748pa V102A+STIM1-UV	0,50884	0
				A254Azi V102A +UV L1748pa V102A+STIM1+UV	0,50884	0
				A254Azi V102A +UV A254Azi V102A -UV	0,65718	0
				A254Azi V102A+STIM1 -UV V102A	7,91E-04	1
				A254Azi V102A+STIM1 -UV V102A STIM1	0,20808	0
				A254Azi V102A+STIM1 -UV A1378pa V102A -UV	0,89795	0
				A254Azi V102A+STIM1 -UV A1378pa V102A +UV	0,89795	0
				A254Azi V102A+STIM1 -UV A1378pa V102A+STIM1 -UV	0,52232	0
				A254Azi V102A+STIM1 -UV A1378pa V102A +STIM1+UV	0,37155	0
				A254Azi V102A+STIM1 -UV L1748pa V102A-UV	0,6074	0
				A254Azi V102A+STIM1 -UV L1748pa V102A+UV	0,66361	0
				A254Azi V102A+STIM1 -UV L1748pa V102A+STIM1-UV	0,50019	0
				A254Azi V102A+STIM1 -UV L1748pa V102A+STIM1+UV	0,50019	0
				A254Azi V102A+STIM1 -UV A254Azi V102A -UV	0,6074	0
				A254Azi V102A+STIM1 -UV A254Azi V102A +UV	0,96842	0
				A254Azi V102A +STIM1+UV V102A	5,29E-04	1
				A254Azi V102A +STIM1+UV V102A STIM1	0,25971	0
				A254Azi V102A +STIM1+UV A1378pa V102A -UV	1	0
				A254Azi V102A +STIM1+UV A1378pa V102A +UV	0,79761	0
				A254Azi V102A +STIM1+UV A1378pa V102A+STIM1 -UV	0,44314	0
				A254Azi V102A +STIM1+UV A1378pa V102A +STIM1+UV	0,30785	0
				A254Azi V102A +STIM1+UV L1748pa V102A-UV	0,69249	0
				A254Azi V102A +STIM1+UV L1748pa V102A+UV	0,75163	0
				A254Azi V102A +STIM1+UV L1748pa V102A+STIM1-UV	0,41906	0
				A254Azi V102A +STIM1+UV L1748pa V102A+STIM1+UV	0,41906	0
				A254Azi V102A +STIM1+UV A254Azi V102A -UV	0,69249	0
				A254Azi V102A +STIM1+UV A254Azi V102A +UV	0,9369	0
				A254Azi V102A +STIM1+UV A254Azi V102A+STIM1 -UV	0,89795	0
S9c Before UV	Welch-ANOVA	3,49E-05	F(8, 25.15)=7.73	47 -	0,99995	0
				60 -	0,99968	0
				60 47	1	0
				64 -	0,70976	0
				64 47	0,80289	0
				64 60	0,853	0
				68 -	0,99051	0
				68 47	0,9991	0
				68 60	0,99981	0
				68 64	0,99097	0
				70 -	0,99976	0
				70 47	1	0
				70 60	1	0
				70 64	0,80493	0
				70 68	0,99941	0
				71 -	1	0
				71 47	0,99944	0
				71 60	0,99696	0
				71 64	0,58132	0
				71 68	0,97091	0
				71 70	0,9968	0
				72 -	0,5517	0
				72 47	0,09426	0
				72 60	0,10063	0
				72 64	0,08821	0
				72 68	0,30294	0
				72 70	0,02458	1
				72 71	0,23168	0
				78 -	0,55766	0
				78 47	0,09603	0
				78 60	0,10186	0
				78 64	0,08875	0
				78 68	0,30477	0
				78 70	0,02509	1
				78 71	0,23488	0
				78 72	1	0
S9c After UV	Welch-ANOVA	3,92E-09	F(8, 26.08)=19.43	47 -	0,99685	0
				60 -	0,77091	0
				60 47	0,97761	0
				64 -	0,85599	0
				64 47	0,98592	0
				64 60	1	0
				68 -	0,99571	0
				68 47	0,56697	0
				68 60	0,13304	0
				68 64	0,376	0
				70 -	0,75142	0
				70 47	0,10994	0
				70 60	0,02556	1
				70 64	0,1453	0
				70 68	0,84518	0
				71 -	0,13653	0
				71 47	0,00872	1
				71 60	0,00443	1
				71 64	0,03624	1
				71 68	0,06143	0
				71 70	0,08806	0
				72 -	0,0419	1
				72 47	0,00319	1
				72 60	0,00254	1
				72 64	0,01914	1
				72 68	0,02101	1
				72 70	0,00243	1

S9d After UV	Welch-ANOVA	1,03E-05	F(8, 24.85)=8.94	72 71	0,28146	0
				78 -	0,04646	1
				78 47	0,00348	1
				78 60	0,00268	1
				78 64	0,02023	1
				78 68	0,02281	1
				78 70	0,00314	1
				78 71	0,37274	0
				78 72	0,99994	0
				47 -	1	0
				60 -	1	0
				60 47	1	0
				64 -	1	0
				64 47	0,99998	0
S9e After UV	Welch-ANOVA	1,09E-05	F(7, 16.83)=12.89	64 60	1	0
				68 -	1	0
				68 47	0,32212	0
				68 60	0,54565	0
				68 64	0,95646	0
				70 -	0,76226	0
				70 47	0,04561	1
				70 60	0,06274	0
				70 64	0,65203	0
				70 68	0,1402	0
				71 -	0,58464	0
				71 47	0,03448	1
				71 60	0,0426	1
				71 64	0,58552	0
				71 68	0,0999	0
				71 70	0,41248	0
				72 -	0,75934	0
				72 47	0,02624	1
				72 60	0,027	1
				72 64	0,51074	0
				72 68	0,06665	0
				72 70	0,25673	0
				72 71	0,01838	1
				78 -	0,62601	0
				78 47	0,0271	1
				78 60	0,02901	1
				78 64	0,52232	0
				78 68	0,07109	0
				78 70	0,27801	0
				78 71	0,07493	0
				78 72	0,83303	0
					0,99999	0
S11c -70mV	one-way ANOVA	0,00418	F(3, 26)=5.61	47 -	1	0
				60 -	0,14534	0
				60 47	0,18222	0
				64 -	1	0
				64 47	1	0
				64 60	0,17943	0
				68 -	0,65248	0
				68 47	0,8124	0
				68 60	0,03237	1
				68 64	0,80979	0
				70 -	0,01266	1
				70 47	0,20018	0
				70 60	0,00464	1
				70 64	0,1605	0
				70 68	0,96694	0
				72 -	0,00108	1
				72 47	0,07791	0
				72 60	0,00241	1
				72 64	0,04632	1
				72 68	0,67322	0
				72 70	0,29288	0
				78 -	0,0014	1
				78 47	0,08729	0
				78 60	0,00258	1
				78 64	0,05437	0
				78 68	0,72329	0
				78 70	0,41813	0
				78 72	0,98607	0
S11c -90mV	Welch-ANOVA	2,14E-04	F(3, 11.38)=16.6	A137Bpa Ca WT Ca	0,55556	0
				WT Na WT Ca	0,0056	1
				WT Na A137Bpa Ca	0,03458	1
				A137Bpa Na WT Ca	0,00201	1
				A137Bpa Na A137Bpa Ca	0,01689	1
				A137Bpa Na WT Na	0,83671	0
S11c -110mV	one-way ANOVA	<0.0001	F(3, 29)=50.6	A137Bpa Ca WT Ca	0,14437	0
				WT Na WT Ca	0,00455	1
				WT Na A137Bpa Ca	0,00574	1
				A137Bpa Na WT Ca	0,00477	1
				A137Bpa Na A137Bpa Ca	0,0063	1
				A137Bpa Na WT Na	0,993	0
S11d -70mV	one-way ANOVA	0,00323	F(3, 21)=6.3	A137Bpa Ca WT Ca	<0.0001	1
				WT Na WT Ca	<0.0001	1
				WT Na A137Bpa Ca	<0.0001	1
				A137Bpa Na WT Ca	<0.0001	1
				A137Bpa Na A137Bpa Ca	<0.0001	1
				A137Bpa Na WT Na	0,68826	0
S11d -90mV	one-way ANOVA	<0.0001	F(3, 21)=13.95	A137Bpa Ca WT Ca	0,004	1
				WT Na WT Ca	0,99344	0
				WT Na A137Bpa Ca	0,00391	1
				A137Bpa Na WT Ca	0,9748	0
				A137Bpa Na A137Bpa Ca	0,00236	1
				A137Bpa Na WT Na	0,98164	0
S11d -110mV	one-way ANOVA	<0.0001	F(3, 21)=13.95	A137Bpa Ca WT Ca	0,00102	1
				WT Na WT Ca	0,32708	0
				WT Na A137Bpa Ca	<0.0001	1
				A137Bpa Na WT Ca	0,18936	0
				A137Bpa Na A137Bpa Ca	<0.0001	1
				A137Bpa Na WT Na	0,76081	0

S11d -110mV

one-way ANOVA

<0.0001

F(3, 21)=23.71

A1378pa Ca WT Ca
WT Na WT Ca
WT Na A1378pa Ca
A1378pa Na WT Ca
A1378pa Na A1378pa Ca
A1378pa Na WT Na

<0.0001 1
0.304 0
<0.0001 1
0.10072 0
<0.0001 1
0.5443 0