

## VTRNA1-1 (Labno)

### End Position KS-test Matrix

	DIS3L2 WT_1	DIS3L2 WT_2	DIS3L2 WT_3
DIS3L2 Mut_1	4.829023E-05	4.339632E-04	2.187131E-01
DIS3L2 Mut_2	7.084303E-04	1.295540E-03	3.120647E-01
DIS3L2 Mut_3	9.286356E-06	1.645482E-04	2.532410E-01

### Pooled End Position KS-test

1.852351e-09

### Tail Length KS-test Matrix

	DIS3L2 WT_1	DIS3L2 WT_2	DIS3L2 WT_3
DIS3L2 Mut_1	2.377555E-05	7.524774E-05	2.187131E-01
DIS3L2 Mut_2	1.222320E-03	2.284022E-03	6.107870E-01
DIS3L2 Mut_3	5.426585E-06	4.051894E-05	1.465849E-01

### Pooled Tail Length KS-test

1.34335e-09

### Number of Observations

Condition	n
DIS3L2 WT_1	21
DIS3L2 WT_2	20
DIS3L2 WT_3	35
DIS3L2 Mut_1	54
DIS3L2 Mut_2	118
DIS3L2 Mut_3	33

## RNU1-1 (Lardelli)

### End Position KS-test Matrix

	TOE1+_1	TOE1+_2	TOE1+_3	TOE1+_4
TOE1-_1	<1e-50	<1e-50	<1e-50	<1e-50
TOE1-_2	<1e-50	<1e-50	<1e-50	<1e-50
TOE1-_3	<1e-50	<1e-50	2.81840850657744e-09	<1e-50
TOE1-_4	<1e-50	<1e-50	<1e-50	<1e-50

### Pooled End Position KS-test

<1e-50

### Tail Length KS-test Matrix

	TOE1+_1	TOE1+_2	TOE1+_3	TOE1+_4
TOE1-_1	<1e-50	<1e-50	3.30846461338297e-14	8.8159308742064e-09
TOE1-_2	<1e-50	<1e-50	9.64485158405637e-11	4.19450031485802e-07
TOE1-_3	<1e-50	<1e-50	0.000124527617351933	0.000211237539438636
TOE1-_4	<1e-50	<1e-50	6.50890452646991e-12	2.96518487430397e-07

### Pooled Tail Length KS-test

<1e-50

### Number of Observations

Condition	n
TOE1+_1	3495
TOE1+_2	4576
TOE1+_3	2567
TOE1+_4	8044
TOE1-_1	1704
TOE1-_2	1355
TOE1-_3	1644
TOE1-_4	1285

**Supplementary Figure S2. Example output from the Tailer-Analysis' statistics tab.** After selecting a gene of interest, each replicate in a condition is compared pairwise to every other replicate in the comparison condition using a KS test. Comparisons are performed for the End Position metric and the Tail Length metric described above. Statistics are also performed after pooling all samples to get a singular pooled KS test metric. The number of observations in each condition is also reported in a table.