Variable:		Duill'3 I		rison: Whole Cell Electro	physiology	
				N g <sup>-1</sup> ) by Genotype		
Comparison Z	WTa - WTs 9.2001	LVNV - WTs 0.281	LVNV - WTa -7.3837	EPN - WTs -0.8232	EPN - WTa -8.2033	EPN - LVNV -0.9494
P.unadj	3.58 x 10 <sup>-20</sup>	0.7787	1.54 x 10 <sup>-13</sup>	0.4104	2.34 x 10 <sup>-16</sup>	0.3424
P.adj	2.15 x 10 <sup>-19</sup>	0.7787	6.16 x 10 <sup>-13</sup>	0.8208	1.17 x 10 <sup>-15</sup>	1
Observations (N,n)	(16,64) - (23,92)	(11,44) - (23,92)	(11,44) - (16,64)	(10,40) - (23,92)	(10,40) - (16,64)	(10,40) - (11,44)
Variable:			г (N «-1\	hu Canatuna		
Comparison	WTa - WTs	LVNV - WTs	F <sub>max</sub> (N g <sup>-1</sup> ) LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	1.204	-8.358	-8.823	-4.7751	-5.4589	2.8728
P.unadj	0.2288	6.38 x 10 <sup>-17</sup>	1.11 x 10 <sup>-18</sup>	1.8 x 10 <sup>-6</sup>	4.8 x 10 <sup>-8</sup>	0.0041
P.adj	0.2288	3.19 x 10 <sup>-16</sup>	6.68 x 10 <sup>-18</sup>	5.39 x 10 <sup>-6</sup>	1.92 x 10 <sup>-7</sup>	0.0081
Observations (N,n)	(16,64) - (23,92)	(11,44) - (23,92)	(11,44) - (16,64)	(10,40) - (23,92)	(10,40) - (16,64)	(10,40) - (11,44)
Variable:			Time to 10% F	<sub>ax</sub> (s) by Genotype		
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
· Z	6.8136	4.3741	-1.5692	2.7744	-2.8955	-1.2647
P.unadj _	9.52 x 10 <sup>-12</sup>	1.22 x 10 <sup>-5</sup>	0.1166	0.0055	0.0038	0.206
P.adj	5.71 x 10 <sup>-11</sup>	6.1 x 10 <sup>-5</sup>	0.2332	0.0166	0.0151	0.206
Observations (N,n)	(16,64) - (23,92)	(11,44) - (23,92)	(11,44) - (16,64)	(10,40) - (23,92)	(10,40) - (16,64)	(10,40) - (11,44)
Variable:			Time to F	(s) by Genotype		
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	5.134	3.1614	-1.3083	-0.7812	-4.8802	-3.33
P.unadj_	2.34 x 10 <sup>-7</sup>	0.0016	0.1908	0.4347	1.06 x 10 <sup>-6</sup>	0.0009
P.adj	1.7 x 10 <sup>-6</sup>	0.0047	0.3815	0.4347	5.3 x 10 <sup>-6</sup>	0.0035
Observations (N,n)	(16,64) - (23,92)	(11,44) - (23,92)	(11,44) - (16,64)	(10,40) - (23,92)	(10,40) - (16,64)	(10,40) - (11,44)
Variable:			Time to 50% F rela	exation (s) by Genotype		
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	6.0629	1.5034	-3.6321	-1.8299	-6.6157	-2.8477
P.unadj	1.34 x 10 <sup>-9</sup>	0.1327	0.0003	0.0673	3.7 x 10 <sup>-11</sup>	0.0044
P.adj	6.68 x 10 <sup>-9</sup>	0.1327	0.0011	0.1345	2.22 x 10 <sup>-10</sup>	0.0132
Observations (N,n)	(16,64) - (23,92)	(11,44) - (23,92)	(11,44) - (16,64)	(10,40) - (23,92)	(10,40) - (16,64)	(10,40) - (11,44)
Variable:	(	Contraction Duration from	n 10% maximal contracti	on to 50% nost-maxima	relaxation (s) by Genoty	me.
Comparison	WTa - WTs	LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Z	5.2261	0.2288	-4.1296	-2.8344	-6.8838	-2.6492
P.unadj _	1.73 x 10 <sup>-7</sup>	0.819	3.63 x 10 <sup>-5</sup>	0.0046	5.83 x 10 <sup>-12</sup>	0.0081
P.adj	8.66 x 10 <sup>-7</sup>	0.819	0.0001	0.0138	3.5 x 10 <sup>-11</sup>	0.0161
Observations (N,n)	(16,64) - (23,92)	(11,44) - (23,92)	(11,44) - (16,64)	(10,40) - (23,92)	(10,40) - (16,64)	(10,40) - (11,44)
Variable:			dEdt(N g <sup>-1</sup>	s <sup>-1</sup> ) by Genotype		
		LVNV - WTs	LVNV - WTa	EPN - WTs	EPN - WTa	EPN - LVNV
Comparison	WTa - WTs				= 2040	2.027
Comparison Z	WTa - WTs 1.3333	-7.9934	-8.5897	-4.4751	-5.2818	2.827
•		-7.9934 1.31 x 10 <sup>-15</sup>	8.72 x 10 <sup>-18</sup>	-4.4751 7.64 x 10 <sup>-6</sup>	-5.2818 1.28 x 10 <sup>-7</sup>	2.827 0.0047
Z P.unadj P.adj	1.3333 0.1824 0.1824	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup>	8.72 x 10 <sup>-18</sup> 5.23 x 10 <sup>-17</sup>	7.64 x 10 <sup>-6</sup> 2.29 x 10 <sup>-5</sup>	1.28 x 10 <sup>-7</sup> 5.12 x 10 <sup>-7</sup>	0.0047 0.0094
z P.unadj	1.3333 0.1824	-7.9934 1.31 x 10 <sup>-15</sup>	8.72 x 10 <sup>-18</sup>	7.64 x 10 <sup>-6</sup>	1.28 x 10 <sup>-7</sup>	0.0047
Z P.unadj P.adj	1.3333 0.1824 0.1824	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup>	8.72 × 10 <sup>-18</sup> 5.23 × 10 <sup>-17</sup> (11,44) - (16,64)	7.64 x 10 <sup>-6</sup> 2.29 x 10 <sup>-5</sup> (10,40) - (23,92)	1.28 x 10 <sup>-7</sup> 5.12 x 10 <sup>-7</sup>	0.0047 0.0094
P.unadj P.adj P.adj Observations (N,n)	1.3333 0.1824 0.1824	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup>	8.72 × 10 <sup>-18</sup> 5.23 × 10 <sup>-17</sup> (11,44) - (16,64)	7.64 x 10 <sup>-6</sup> 2.29 x 10 <sup>-5</sup>	1.28 x 10 <sup>-7</sup> 5.12 x 10 <sup>-7</sup>	0.0047 0.0094
P.unadj P.adj Observations (N,n) Variable:	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301	-7.9934 1.31 × 10 <sup>-15</sup> 6.56 × 10 <sup>-15</sup> (11,44) - (23,92) LVNV - WTS 6.07	8.72 x 10 <sup>-18</sup> 5.23 x 10 <sup>-17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92)  5 <sup>-1</sup> ) by Genotype  EPN - WTs 3.2912	1.28 × 10 <sup>-7</sup> 5.12 × 10 <sup>-7</sup> (10,40) - (16,64)  EPN - WTa 3.763	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24
P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92) LVNV - WTs 6.07 1.28 x 10 <sup>-9</sup>	8.72 x 10 <sup>18</sup> 5.23 x 10 <sup>17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 x 10 <sup>10</sup>	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92)  5 <sup>1</sup> ) by Genotype  EPN - WTs 3.2912 0.001	1.28 x 10 <sup>7</sup> 5.12 x 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251
P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 0.4064	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92) LVNV - WTS 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup>	8.72 × 10 <sup>-18</sup> 5.23 × 10 <sup>-17</sup> (11,44) · (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV · WTa 6.3712 1.88 × 10 <sup>-10</sup> 1.13 × 10 <sup>-9</sup>	7.64 × 10 <sup>6</sup> 2.29 × 10 <sup>5</sup> (10,40) - (23,92)  s <sup>-1</sup> ) by Genotype  EPN - WTs 3.2912 0.001 0.003	1.28 x 10 <sup>7</sup> 5.12 x 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502
P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92) LVNV - WTs 6.07 1.28 x 10 <sup>-9</sup>	8.72 x 10 <sup>18</sup> 5.23 x 10 <sup>17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 x 10 <sup>10</sup>	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92)  5 <sup>1</sup> ) by Genotype  EPN - WTs 3.2912 0.001	1.28 x 10 <sup>7</sup> 5.12 x 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251
P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 0.4064	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92) LVNV - WTS 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup>	8.72 x 10 <sup>18</sup> 5.23 x 10 <sup>17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 x 10 <sup>10</sup> 1.13 x 10 <sup>-9</sup> (11,44) - (16,64)	7.64 × 10 <sup>6</sup> 2.29 × 10 <sup>5</sup> (10,40) - (23,92)  s <sup>-1</sup> ) by Genotype  EPN - WTs 3.2912 0.001 0.003	1.28 x 10 <sup>7</sup> 5.12 x 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502
P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj Observations (N,n)	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 0.4064	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92) LVNV - WTS 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup>	8.72 x 10 <sup>18</sup> 5.23 x 10 <sup>17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 x 10 <sup>10</sup> 1.13 x 10 <sup>-9</sup> (11,44) - (16,64)	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92) s <sup>-1</sup> ) by Genotype EPN - WTs 3.2912 0.001 0.003 (10,40) - (23,92) x (s) by Genotype EPN - WTs	1.28 x 10 <sup>7</sup> 5.12 x 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502
P.unadj P.adj Observations (N,n)  Variable:  Comparison Z P.unadj P.adj Observations (N,n)  Variable:	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>15</sup> (11,44) - (23,92)  LVNV - WTS 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTS 5.4244	8.72 × 10 <sup>18</sup> 5.23 × 10 <sup>17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 × 10 <sup>10</sup> 1.13 × 10 <sup>9</sup> (11,44) - (16,64)  Time to dFdt <sub>ma</sub> LVNV - WTa 6.2272	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92) s <sup>-1</sup> ) by Genotype EPN - WTs 3.2912 0.001 0.003 (10,40) - (23,92) x(s) by Genotype EPN - WTs 1.4863	1.28 × 10 <sup>7</sup> 5.12 × 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626
P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj Observations (N,n)  Variable: Comparison	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92)  LVNV - WTS 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTS 5.4244 5.82 x 10 <sup>-8</sup>	8.72 × 10 <sup>18</sup> 5.23 × 10 <sup>17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 × 10 <sup>-10</sup> (11,44) - (16,64)  Time to dFdt <sub>ma</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup>	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92) s <sup>-1</sup> ) by Genotype EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x(s) by Genotype EPN - WTS 1.4863 0.1372	1.28 × 10 <sup>7</sup> 5.12 × 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143 0.0119	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011
P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj P.adj	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92)  LVNV - WTs 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTs 5.4244 5.82 x 10 <sup>-8</sup> 2.91 x 10 <sup>-7</sup>	8.72 x 10 <sup>18</sup> 5.23 x 10 <sup>17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 x 10 <sup>10</sup> 1.13 x 10 <sup>-9</sup> (11,44) - (16,64)  Time to dFdt <sub>ma</sub> LVNV - WTa 6.2272 4.75 x 10 <sup>10</sup> 2.85 x 10 <sup>-9</sup>	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92) s <sup>-1</sup> ) by Genotype EPN - WTs 3.2912 0.001 0.003 (10,40) - (23,92) x(s) by Genotype EPN - WTs 1.4863 0.1372 0.2744	1.28 x 10 <sup>7</sup> 5.12 x 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143 0.0119 0.0359	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044
P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj P.adj	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92)  LVNV - WTS 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTS 5.4244 5.82 x 10 <sup>-8</sup>	8.72 × 10 <sup>18</sup> 5.23 × 10 <sup>17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 × 10 <sup>-10</sup> (11,44) - (16,64)  Time to dFdt <sub>ma</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup>	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92) s <sup>-1</sup> ) by Genotype EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x(s) by Genotype EPN - WTS 1.4863 0.1372	1.28 × 10 <sup>7</sup> 5.12 × 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143 0.0119	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011
P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj Observations (N,n)	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92)  LVNV - WTs 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTs 5.4244 5.82 x 10 <sup>-8</sup> 2.91 x 10 <sup>-7</sup>	8.72 × 10 <sup>18</sup> 5.23 × 10 <sup>17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 × 10 <sup>10</sup> (11,44) - (16,64)  Time to dFdt <sub>max</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup> 2.85 × 10 <sup>-9</sup> (11,44) - (16,64)	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92) s <sup>-1</sup> ) by Genotype EPN - WTs 3.2912 0.001 0.003 (10,40) - (23,92) x(s) by Genotype EPN - WTs 1.4863 0.1372 0.2744	1.28 x 10 <sup>7</sup> 5.12 x 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143 0.0119 0.0359	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044
P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj P.adj	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92)  LVNV - WTs 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTs 5.4244 5.82 x 10 <sup>-8</sup> 2.91 x 10 <sup>-7</sup>	8.72 × 10 <sup>18</sup> 5.23 × 10 <sup>17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 × 10 <sup>10</sup> (11,44) - (16,64)  Time to dFdt <sub>max</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup> 2.85 × 10 <sup>-9</sup> (11,44) - (16,64)	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92) s <sup>-1</sup> ) by Genotype EPN - WTs 3.2912 0.001 0.003 (10,40) - (23,92) x(s) by Genotype EPN - WTs 1.4863 0.1372 0.2744 (10,40) - (23,92)	1.28 x 10 <sup>7</sup> 5.12 x 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143 0.0119 0.0359	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044
P. unadj P. adj Observations (N,n)  Variable: Comparison Z P. unadj P. adj Observations (N,n)  Variable: Comparison Z P. unadj Observations (N,n)  Variable: Variable: Variable: Variable: Variable: Variable: Variable:	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92)	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92)  LVNV - WTS 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTS 5.4244 5.82 x 10 <sup>-8</sup> 2.91 x 10 <sup>-7</sup> (11,44) - (23,92)	8.72 × 10 <sup>18</sup> 5.23 × 10 <sup>17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 × 10 <sup>10</sup> (11,44) - (16,64)  Time to dFdt <sub>ma</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup> 2.85 × 10 <sup>9</sup> (11,44) - (16,64)	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92) s <sup>-1</sup> ) by Genotype EPN - WTs 3.2912 0.001 0.003 (10,40) - (23,92) x(s) by Genotype EPN - WTs 1.4863 0.1372 0.2744 (10,40) - (23,92)	1.28 × 10 <sup>7</sup> 5.12 × 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64)	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44)
P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj Observations (N,n)  Variable: Comparison Variable: Comparison	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92)	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92)  LVNV - WTs 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTs 5.4244 5.82 x 10 <sup>-8</sup> 2.91 x 10 <sup>-7</sup> (11,44) - (23,92)	8.72 x 10 <sup>18</sup> 5.23 x 10 <sup>17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 x 10 <sup>10</sup> 1.13 x 10 <sup>-9</sup> (11,44) - (16,64)  Time to dFdt <sub>ma</sub> LVNV - WTa 6.2272 4.75 x 10 <sup>10</sup> 2.85 x 10 <sup>-9</sup> (11,44) - (16,64)  Time to dFdt <sub>min</sub>	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92) s <sup>1</sup> ) by Genotype EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x(s) by Genotype EPN - WTS 1.4863 0.1372 0.2744 (10,40) - (23,92) x(s) by Genotype EPN - WTS	1.28 x 10 <sup>7</sup> 5.12 x 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64)	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44)
P. unadj P. adj Observations (N,n)  Variable: Comparison P. adj Observations (N,n)  Variable: Comparison Z P. unadj P. adj Observations (N,n)  Variable: Comparison Z P. unadj P. adj Observations (N,n)  Variable: Comparison Z P. unadj P. adj P. adj	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs -3.84 0.1664 0.1664 (16,64) - (23,92)	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92)  LVNV - WTS 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTS 5.4244 5.82 x 10 <sup>-8</sup> 2.91 x 10 <sup>-7</sup> (11,44) - (23,92)	8.72 × 10 <sup>-18</sup> 5.23 × 10 <sup>-17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 × 10 <sup>-10</sup> (11,44) - (16,64)  Time to dFdt <sub>ma</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup> 2.85 × 10 <sup>-9</sup> (11,44) - (16,64)  Time to dFdt <sub>ma</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup> 2.85 × 10 <sup>-9</sup> (11,44) - (16,64)	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92) s <sup>-1</sup> ) by Genotype EPN - WTs 3.2912 0.001 0.003 (10,40) - (23,92) x(s) by Genotype EPN - WTs 1.4863 0.1372 0.2744 (10,40) - (23,92) x(s) by Genotype EPN - WTs -2.4015 0.0163 0.049	1.28 × 10 <sup>7</sup> 5.12 × 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64)  EPN - WTa -5.7613 8.35 × 10 <sup>9</sup> 5.01 × 10 <sup>8</sup>	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44) EPN - LVNV -1.153 0.249 0.4978
P. unadj P. adj Observations (N,n)  Variable: Comparison P. adj Observations (N,n)  Variable: Comparison Z P. unadj P. adj Observations (N,n)  Variable: Comparison Z P. unadj P. adj Observations (N,n)	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92)	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92)  LVNV - WTS 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTS 5.4244 5.82 x 10 <sup>-8</sup> 2.91 x 10 <sup>-7</sup> (11,44) - (23,92)	8.72 × 10 <sup>-18</sup> 5.23 × 10 <sup>-17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 × 10 <sup>-10</sup> 1.13 × 10 <sup>-9</sup> (11,44) - (16,64)  Time to dFdt <sub>ma</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup> 2.85 × 10 <sup>-9</sup> (11,44) - (16,64)  Time to dFdt <sub>min</sub> LVNV - WTa 6.272 4.75 × 10 <sup>-10</sup> 2.85 × 10 <sup>-9</sup> (11,47) - (16,64)	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92) s <sup>-1</sup> ) by Genotype EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x(s) by Genotype EPN - WTS 1.4863 0.1372 0.2744 (10,40) - (23,92) x(s) by Genotype EPN - WTS - 2.4015 0.0163	1.28 × 10 <sup>7</sup> 5.12 × 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64)  EPN - WTa -5.7613 8.35 × 10 <sup>9</sup>	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44) EPN - LVNV -1.153 0.249
P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj Observations (N,n)  Variable: Comparison Z P.unadj P.adj Observations (N,n)  Variable: Comparison Descriptions (N,n)  Variable: Comparison Nariable: Comparison A C P.unadj P.adj Observations (N,n)	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs -3.84 0.1664 0.1664 (16,64) - (23,92)	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92)  LVNV - WTs 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTs 5.4244 5.82 x 10 <sup>-8</sup> 2.91 x 10 <sup>-7</sup> (11,44) - (23,92)  LVNV - WTs -0.9053 0.3653 0.3653 (11,44) - (23,92)	8.72 × 10 <sup>-18</sup> 5.23 × 10 <sup>-17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 × 10 <sup>-10</sup> 1.13 × 10 <sup>-9</sup> (11,44) - (16,64)  Time to dFdt <sub>max</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup> 2.85 × 10 <sup>-9</sup> (11,44) - (16,64)  Time to dFdt <sub>mix</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup> 2.85 × 10 <sup>-9</sup> (11,44) - (16,64)	7.64 x 10 <sup>-6</sup> 2.29 x 10 <sup>-5</sup> (10,40) - (23,92) s <sup>-1</sup> ) by Genotype EPN - WTs 3.2912 0.001 0.003 (10,40) - (23,92) x (s) by Genotype EPN - WTs 1.4863 0.1372 0.2744 (10,40) - (23,92) x (s) by Genotype EPN - WTs -2.4015 0.0163 0.049 (10,40) - (23,92)	1.28 x 10 <sup>7</sup> 5.12 x 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64)  EPN - WTa -5.7613 8.35 x 10 <sup>9</sup> 5.01 x 10 <sup>8</sup> (10,40) - (16,64)	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44) EPN - LVNV -1.153 0.249 0.4978
P.unadj Observations (N,n)  Variable:  Comparison Z P.unadj P.adj Observations (N,n)  Variable:  Comparison Z P.unadj P.adj Observations (N,n)  Variable:  Comparison Z P.unadj P.adj Observations (N,n)  Variable:  Comparison Variable:  Variable:  Variable:  Variable:  Variable:	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs 4.346 1.39 x 10 <sup>5</sup> 6.93 x 10 <sup>5</sup> (16,64) - (23,92)	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92)  LVNV - WTS 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTS 5.4244 5.82 x 10 <sup>-8</sup> 2.91 x 10 <sup>-7</sup> (11,44) - (23,92)  LVNV - WTS -0.9053 0.3653 0.3653 0.3653 (11,44) - (23,92)	8.72 × 10 <sup>-18</sup> 5.23 × 10 <sup>-17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 × 10 <sup>-10</sup> 1.13 × 10 <sup>-9</sup> (11,44) - (16,64)  Time to dFdt <sub>ma</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup> 2.85 × 10 <sup>-9</sup> (11,44) - (16,64)  Time to dFdt <sub>min</sub> LVNV - WTa -4.752 2.98 × 10 <sup>-5</sup> 0.00001 (11,44) - (16,64)	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92)  5 <sup>1</sup> ) by Genotype  EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92)  x (s) by Genotype  EPN - WTS 1.4863 0.1372 0.2744 (10,40) - (23,92)  y (s) by Genotype  EPN - WTS -2.4015 0.0163 0.049 (10,40) - (23,92)  dt <sub>max</sub> to dFdt <sub>min</sub> (s) by Ge	1.28 × 10 <sup>7</sup> 5.12 × 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64)  EPN - WTa -5.7613 8.35 × 10 <sup>9</sup> 5.01 × 10 <sup>8</sup> (10,40) - (16,64)  notype	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44) EPN - LVNV -1.153 0.249 0.4978 (10,40) - (11,44)
P.unadj P.adj Observations (N,n)  Variable: Comparison P.adj Observations (N,n)	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs -3.84 0.1664 0.1664 (16,64) - (23,92)	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92)  LVNV - WTs 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTs 5.4244 5.82 x 10 <sup>-8</sup> 2.91 x 10 <sup>-7</sup> (11,44) - (23,92)  LVNV - WTs -0.9053 0.3653 0.3653 (11,44) - (23,92)	8.72 × 10 <sup>-18</sup> 5.23 × 10 <sup>-17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 × 10 <sup>-10</sup> 1.13 × 10 <sup>-9</sup> (11,44) - (16,64)  Time to dFdt <sub>max</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup> 2.85 × 10 <sup>-9</sup> (11,44) - (16,64)  Time to dFdt <sub>mix</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup> 2.85 × 10 <sup>-9</sup> (11,44) - (16,64)	7.64 x 10 <sup>-6</sup> 2.29 x 10 <sup>-5</sup> (10,40) - (23,92) s <sup>-1</sup> ) by Genotype EPN - WTs 3.2912 0.001 0.003 (10,40) - (23,92) x (s) by Genotype EPN - WTs 1.4863 0.1372 0.2744 (10,40) - (23,92) x (s) by Genotype EPN - WTs -2.4015 0.0163 0.049 (10,40) - (23,92)	1.28 x 10 <sup>7</sup> 5.12 x 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64)  EPN - WTa -5.7613 8.35 x 10 <sup>9</sup> 5.01 x 10 <sup>8</sup> (10,40) - (16,64)	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44) EPN - LVNV -1.153 0.249 0.4978
P.unadj P.adj Observations (N,n)  Variable:  Comparison Z P.unadj P.adj Observations (N,n)  Variable:  Comparison Z P.unadj P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj Observations (N,n)  Variable: Comparison Variable: Comparison Variable: Comparison Variable: Comparison Variable: Comparison Variable: Comparison	1.3333 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs 4.346 1.39 x 10 <sup>-5</sup> 6.93 x 10 <sup>-5</sup> (16,64) - (23,92)	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92)  LVNV - WTS 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTS 5.4244 5.82 x 10 <sup>-8</sup> 2.91 x 10 <sup>-7</sup> (11,44) - (23,92)  LVNV - WTS -0.9053 0.3653 0.3653 (11,44) - (23,92)	8.72 x 10 <sup>18</sup> 5.23 x 10 <sup>17</sup> (11,44) - (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 x 10 <sup>-10</sup> 1.13 x 10 <sup>9</sup> (11,44) - (16,64)  Time to dFdt <sub>ma</sub> LVNV - WTa 6.2272 4.75 x 10 <sup>-10</sup> 2.85 x 10 <sup>9</sup> (11,44) - (16,64)  Time to dFdt <sub>ma</sub> LVNV - WTa 6.2272 4.75 x 10 <sup>-10</sup> 2.85 x 10 <sup>9</sup> (11,44) - (16,64)  Time to dFdt <sub>min</sub> LVNV - WTa 6.210 4.1752 6.298 x 10 <sup>-5</sup> 0.0001 6.11,44) - (16,64) taction Duration from dFdtatorial fr	7.64 x 10 6 2.29 x 10 5 (10,40) - (23,92) s <sup>-1</sup> ) by Genotype EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x(s) by Genotype EPN - WTS 1.4863 0.1372 0.2744 (10,40) - (23,92) x(s) by Genotype EPN - WTS - W	1.28 × 10 <sup>7</sup> 5.12 × 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64)  EPN - WTa -5.7613 8.35 × 10 <sup>9</sup> 5.01 × 10 <sup>8</sup> (10,40) - (16,64)  notype EPN - WTa	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44) EPN - LVNV -1.153 0.249 0.4978 (10,40) - (11,44)
P.unadj P.adj Observations (N,n)  Variable: Comparison P.adj Observations (N,n)  Variable: Comparison Z P.unadj P.adj Observations (N,n)  Variable: Comparison P.adj Observations (N,n)  Variable: Comparison Z Variable: Comparison Z P.unadj P.adj Observations (N,n)	1.3333 0.1824 0.1824 (16,64) - (23,92) WTa - WTs -0.8301 0.4064 0.4064 (16,64) - (23,92) WTa - WTs -1.384 0.1664 0.1664 (16,64) - (23,92) WTa - WTs 4.346 1.39 x 10 <sup>5</sup> 6.93 x 10 <sup>5</sup> (16,64) - (23,92) WTa - WTs 4.6294	-7.9934 1.31 x 10 <sup>-15</sup> 6.56 x 10 <sup>-15</sup> (11,44) - (23,92)  LVNV - WTS 6.07 1.28 x 10 <sup>-9</sup> 6.4 x 10 <sup>-9</sup> (11,44) - (23,92)  LVNV - WTS 5.4244 5.82 x 10 <sup>-8</sup> 2.91 x 10 <sup>-7</sup> (11,44) - (23,92)  LVNV - WTS -0.9053 0.3653 (11,44) - (23,92)  Cont LVNV - WTS -2.184	8.72 × 10 <sup>-18</sup> 5.23 × 10 <sup>-17</sup> (11,44) · (16,64)  dFdt <sub>min</sub> (N g <sup>-1</sup> LVNV - WTa 6.3712 1.88 × 10 <sup>-10</sup> 1.13 × 10 <sup>-9</sup> (11,44) · (16,64)  Time to dFdt <sub>ma</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup> 2.85 × 10 <sup>-9</sup> (11,44) · (16,64)  Time to dFdt <sub>min</sub> LVNV - WTa 6.2272 4.75 × 10 <sup>-10</sup> 2.85 × 10 <sup>-10</sup> (11,44) · (16,64)  textinate to dFdt <sub>min</sub> LVNV - WTa -4.1752 2.98 × 10 <sup>-5</sup> 0.0001 (11,44) · (16,64)	7.64 x 10 <sup>6</sup> 2.29 x 10 <sup>5</sup> (10,40) - (23,92) s <sup>-1</sup> ) by Genotype EPN - WTS 3.2912 0.001 0.003 (10,40) - (23,92) x(s) by Genotype EPN - WTS 1.4863 0.1372 0.2744 (10,40) - (23,92) x(s) by Genotype EPN - WTS -2.4015 0.0163 0.049 (10,40) - (23,92) sttmax to dFdtmin (s) by Ge EPN - WTS -2.5327	1.28 x 10 <sup>7</sup> 5.12 x 10 <sup>7</sup> (10,40) - (16,64)  EPN - WTa 3.763 0.0002 0.0007 (10,40) - (16,64)  EPN - WTa 2.5143 0.0119 0.0359 (10,40) - (16,64)  EPN - WTa -5.7613 8.35 x 10 <sup>9</sup> 5.01 x 10 <sup>8</sup> (10,40) - (16,64)  notype  EPN - WTa -6.1184	0.0047 0.0094 (10,40) - (11,44) EPN - LVNV -2.24 0.0251 0.0502 (10,40) - (11,44) EPN - LVNV -3.2626 0.0011 0.0044 (10,40) - (11,44) EPN - LVNV -1.153 0.249 0.4978 (10,40) - (11,44) EPN - LVNV -0.3633

Baseline Force (N g<sup>-1</sup>)

F<sub>max</sub> (N g<sup>-1</sup>) Time to 10% F<sub>max</sub> (s)

Time to F<sub>max</sub> (s)

Time to 50% F<sub>max</sub> relaxation (s)

Contraction Duration from 10% maximal contraction to 50% post-maximal relaxation (s)

 $\mathrm{dFdt}_{\mathrm{max}}\,\mathrm{(N~g^{\text{-1}}\,s^{\text{-1}})}$ 

 $dFdt_{min} \ (N \ g^{\text{-1}} \ s^{\text{-1}})$ 

Time to  $dFdt_{max}$  (s) Time to  $dFdt_{min}$  (s)

Contaction Duration from  $dFdt_{max}$  to  $dFdt_{min}$  (s)

Optimal baseline tension on the muscles in Newtons/gram-tissue Maimum force produced by each phasic contraction in Newtons/gram Time to develop 10% of maximal force from stimulus onset (seconds) Time required to achieve maximal force (in seconds) Time required to half-maximally relax from stimulus onset (seconds) (Time to 50% relaxation) - (Time to 10% contraction) (seconds)

Positive peak of first derivative (in Newtons/gram-tissue per second) Negative peak of first derivative (in Newtons/gram-tissue per second) Time from stimulus onset to peak rate of force development (seconds) Time from stimulus onset to peak rate of force relaxation (seconds) (Time to dFdtmin) - (Time to dFdtmax) (seconds)