

Appendix 1

Subject Information for Endomyocardial Biopsy Samples evaluated in Qdot analysis in **Figure 1**

No Rejection (NoR) Samples

	<u>Subject #</u>	<u>Classification</u>	<u>Day Post Tx</u>	<u>ACR Grade</u>	<u>AMR Grade</u>	<u>C4d Stain</u>
1	3	NoR	26	0	0	-
2	3	NoR	331	0	0	-
3	6	NoR	28	1A/1R	0	-
4	29	NoR	20	0	0	-
5	31	NoR	10	0	0	-
6	31	NoR	13	0	0	-
7	33	NoR	8	0	0	-

n=5; 6 incidences

<u>Mean Day Post Tx</u>	<u>St. Dev.</u>
62.3	118.7

Rejection Samples

	<u>Subject #</u>	<u>Classification</u>	<u>Day Post Tx</u>	<u>ACR Grade</u>	<u>AMR Grade</u>	<u>C4d Stain</u>	
Acute Cellular Rejection (ACR)	1	11	ACR	28	3A/2R	0	-
Antibody-mediated Rejection (AMR)	2	13	ACR	24	3A/2R	0	-
	3	13	ACR	122	3A/2R	0	-
	4	15	ACR	308	3A/2R	0	-
	5	15	ACR	25	3A/2R	0	-
	6	16	ACR	23	3A/2R	0	-
	7	16	ACR	183	3A/2R	0	-
	8	18	AMR	15	0	2	+
	9	18	AMR	29	0	2	+
	10	18	AMR	222	0	2	+
	11	19	AMR	11	0	2	+
	12	21	AMR	16	0	2	+
	13	22	AMR	5	0	2	+
	14	23	AMR	15	0	2	+

- = negative
 -/+ = weak positive
 + = positive

<u>Mean Day Post Tx</u>	<u>St. Dev.</u>
73.3	96.7

n=9; 14 incidences

(Day Post Tx) t test
 ACR/AMR vs. NoR P = 0.82197616

Subject Information for ELISA Samples used for statistical analysis in **Figure 2**

Year 1 (Y1) No Rejection (NoR) Time Points Samples

	<u>Subject #</u>	<u>Day Post Tx</u>	<u>ACR Grade</u>	<u>AMR Grade</u>	<u>C4d Stain</u>
1	1	156	0	0	-
2	2	81	0	0	-
3	3	26	0	0	-
4	3	86	0	0	-
5	3	331	0	0	-
6	6	10	0	0	-
7	6	52	0	0	-
8	9	251	0	0	-
9	10	43	0	0	-
10	10	61	0	0	-
11	13	49	0	0	-
12	14	49	0	0	-
13	14	189	0	0	-
14	15	49	0	0	-
15	15	98	0	0	-
16	16	38	0	0	-
17	16	175	0	0	-
18	17	113	0	0	-
19	20	24	0	0	-
20	20	142	0	0	-
21	23	23	0	0	-
22	23	90	0	0	-
23	23	156	0	0	-
24	24	96	0	0	-
25	25	148	0	0	-
26	26	28	0	0	-
27	26	164	0	0	-
28	27	365	0	0	-
29	27	29	0	0	-
30	27	57	0	0	-
31	29	30	0	0	-
32	29	54	0	0	-
33	29	99	0	0	-
34	29	162	0	0	-
35	30	57	0	0	-
36	30	96	0	0	-
37	31	13	0	0	-
38	31	23	0	0	-
39	31	36	0	0	-
40	31	63	0	0	-
41	31	149	0	0	-
42	31	240	0	0	-
43	32	58	0	0	-
44	33	29	0	0	-
45	33	94	0	0	-

n=22; 45 incidences

Ave Day Post Tx	97.38
St. Dev.	81.40

Y1 Rejection (Rej) Time Points Samples

	<u>Subject #</u>	<u>POD</u>	<u>ACR Grade</u>	<u>AMR Grade</u>	<u>C4d Stain</u>
1	10	32	2R/3A	0	-
2	12	30	2R/3A	0	-
3	12	41	2R/3A	0	-
4	12	238	2R/3A	0	-
5	13	24	2R/3A	0	-
6	13	122	2R/3A		-
7	15	25	2R/3A	0	-
8	16	198	2R/3A	0	-
9	16	221	1R/1B	2	-/+
10	16	14	2R/3A	0	-
11	16	23	2R/3A	0	-
12	17	8	0	2	-
13	17	27	0	2	+
14	17	179	2R/3A	0	-
15	18	13	0	2	+
16	18	20	0	2	+
17	18	50	0	2	+
18	18	88	0	2	+
19	18	130	0	2	+
20	18	221	0	2	+
21	18	316	1R/1B	2	+
22	20	10	1R/1A	2	-
23	20	16	0	2	-/+
24	21	23	0	2	+
25	21	30	1R/1A	2	+
26	21	44	0	2	+
27	21	62	1R/1B	2	-
28	21	97	1R/1B	2	-/+
29	22	5	0	2	+
30	22	12	0	2	+
31	22	20	1R/1B	2	+
32	23	16	0	2	+
33	23	275	2R/3A	0	-/+
34	24	145	2R/3A	0	-
35	24	23	2R/3A	2	+
36	25	15	3R/3B	0	-/+
37	25	32	3R/3B	0	-
38	30	250	2R/3A		-
39	32	30	2R/3A	0	-
40	32	44	2R/3A	0	-
41	36	40	2R/3A		-/+
42	37	11	2R/3A	0	-/+
43	37	57	2R/3A		-
44	37	50	2R/3A		-/+
45	44	173	2R/3A		-

n=18; 45 incidences

Ave Day Post Tx	77.78
St. Dev.	85.43
(Day Post Tx) t test	
Rej vs. NoR P =	0.2718

Subject Information for ELISA Samples used for statistical analysis in **Figure 4**

No Rejection (NoR) Samples

	<u>Subject #</u>	<u>Classification</u>	<u>Day Post Tx</u>	<u>Pathology Score</u>
1	8	NoR	21	0
2	22	NoR	25	0
3	22	NoR	28	0
4	25	NoR	18	0
5	28	NoR	0	0
6	33	NoR	37	0
7	42	NoR	14	0
8	64	NoR	22	0
9	102	NoR	11	0
10	108	NoR	16	0
11	108	NoR	21	0
12	114	NoR	11	0
13	114	NoR	16	0
14	114	NoR	464	0
15	121	NoR	24	0
16	121	NoR	29	0
17	131	NoR	1	0
18	131	NoR	300	0

Pathology Scoring Code	
0	No Rejection
1	Mild Rejection
2	Moderate Rejection
3	Severe Rejection
4	Treated Rejection
5	Enteritis

n=12; 18 incidences

Mean Day Post Tx
58.8

St. Dev.
121.3

Rejection (Rej) Samples

	<u>Subject #</u>	<u>Classification</u>	<u>Day Post Tx</u>	<u>Pathology Score</u>
1	5	Rej	583	2
2	5	Rej	653	4
3	8	Rej	754	1
4	8	Rej	766	4
5	22	Rej	245	3
6	22	Rej	276	3
7	25	Rej	1150	3
8	25	Rej	1152	3
9	33	Rej	752	3
10	40	Rej	1310	2
11	42	Rej	489	4
12	42	Rej	566	2
13	42	Rej	595	2
14	60	Rej	1116	2
15	64	Rej	389	1
16	108	Rej	289	1
17	108	Rej	567	1
18	108	Rej	581	1
19	114	Rej	443	1
20	114	Rej	445	4
21	121	Rej	568	3
22	121	Rej	577	3
23	121	Rej	589	3
24	131	Rej	244	3
25	131	Rej	251	2

n=13; 25 incidences

Mean Day Post Tx
614.0

St. Dev.
298.3

Non-specific Enteritis (NE) Samples

	<u>Subject #</u>	<u>Classification</u>	<u>POD</u>	<u>Pathology Score</u>
1	5	NE	1499	5
2	8	NE	264	5
3	25	NE	78	5
4	40	NE	16	5
5	40	NE	271	5
6	50	NE	82	5
7	60	NE	149	5
8	64	NE	452	5
9	102	NE	132	5
10	108	NE	408	5
11	114	NE	340	5

n=10; 11 incidences

Mean Day Post Tx
335.5

St. Dev.
411.2

(Day Post Tx) t test P =

Rej vs. NoR 3.90E-09
 Rej vs. NE 2.81E-02
 NoR vs. NE 1.19E-02

Subject Information for biopsy samples used for qRT-PCR analysis in **Figure 5** and **Tables 3** and **4**

No Rejection (NoR) Samples	Subject #	Classification	Day Post Tx	Pathology Score	
	1	8	NR	21	0
	2	60	NR	16	0
	3	60	NR	20	0
	4	60	NE	41	5
	5	102	NR	28	0
	6	102	NE	125	5
	7	121	NR	23	0
	8	149	NR	10	0
	9	195	D	0	0
	10	197	D	0	0
	11	198	D	0	0
n=8; 11 incidences			<u>Mean Day Post Tx</u>	<u>St. Dev.</u>	
			28.4	36.1	

Pathology Scoring Code	
0	No Rejection
1	Mild Rejection
2	Moderate Rejection
3	Severe Rejection
4	Treated Rejection
5	Enteritis

Classification	
NR	No Rejection
R	Rejection
D	Donor Sample
NE	Non-specific Enteritis

Rejection (Rej) Samples	Subject #	Classification	Day Post Tx	Pathology Score	
	1	8	Rej	1645	3
	2	60	Rej	504	3
	3	60	Rej	608	2
	4	60	Rej	624	2
	5	60	Rej	693	4
	6	60	Rej	741	4
	8	102	Rej	670	1
	9	102	Rej	675	4
	10	121	Rej	571	3
	11	131	Rej	239	3
	12	131	Rej	278	4
	13	149	Rej	226	2
n=6; 13 incidences			<u>Mean Day Post Tx</u>	<u>St. Dev.</u>	
			622.8	370.4	

(Day Post Tx) t test
 Rej vs. NoR $P = 6.36E-05$