

Table S1. HLA-DR/DQ Single Molecule Eplet Mismatch Alloimmune Risk Categories

	<u>Low</u> DR 0-6 DQ 0-8 n=166	<u>Intermediate</u> DR 7-22 DQ 0-14 or DR 0-6 DQ 9-14 n=237	<u>High</u> DR 0-22 DQ 15-31 n=261	P value All groups	P value Intermediate vs. High
First Transplant	91%	96%	97%	0.0123	0.4809
Recipient Age (years)	40.6±14.5	45.3±15.6	44.5±16.6	0.0025	0.6012
Donor Age (years)	39.7±14.3	40.4±14.8	40.7±15.2	0.8153	0.8119
Living Donor	63%	44%	42%	<0.0001	0.6837
Ethnicity (Caucasian vs. other)	71%	66%	63%	0.2419	0.4803
Cold Ischemic Time (hours)	5.4±4.8	7.2±5.2	7.3±5.7	0.0022	0.8207
Delayed Graft Function	12%	12%	16%	0.3595	0.2176
Induction Therapy	23%	47%	41%	<0.0001	0.1871
Basiliximab	14%	21%	18%		
Thymoglobulin	9%	25%	23%		
Tacrolimus versus Cyclosporin	89%	88%	86%	0.6582	0.6061
Tacrolimus CV* 0-12 months (n=582)	36.4±11.8	36.7±12.4	36.0±11.9	0.9072	0.6706
Mycophenolate	100%	100%	100%	ns	ns
Non-Adherence	13%	14%	18%	0.3131	0.2139

*CV, coefficient of variation