

Supplement Table 1 – MHC Characterization and matching

Donor	Recipient	MHC Disparity	MHC Donor					MHC Recipient																						
			A	B	DR	DQ	DP	A	B	DR	DQ	DP	A	B	DR	DQ	DP													
Group 1 – TNX-1500 monotherapy																														
M5720	M3120	full mismatch	M4	M4	M4	M4	M4	M3	M3	M1	M1	M1	M3	M3	M3	M3	M3	M2	M2	M3	M3	M3								
M5220	M6420	full mismatch	A003.01	B025.01	DR46	05g3	16	01	02g2	07g2	A010.01	B043.01	DR09x	23	01	02	18g3	10g	19	01	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1
M7720	M3920	full mismatch	M7	M7	M7	M7	M7	M4	M4	M6	M6	M6	M2	M2	M2	M2	M2	M3	M3	M3	M3	M3								
M1221	M1021	full mismatch	M3	M3	M3	M3	M3	M4	M4	M1	M1	M1	M1	M1	M1	M1	M1	M6	M6	M3	M3	M3								
M10820	M10420	Haplotype identical	M4	M4	M4	M4	M4	M6	M6	M6	M6	M6	M6	M6	M6	M6	M6	M3	M3	M3	M3	M3								
M8720	M10521	Full mismatch	M3	M3	M3	M3	M3	M3	M3	M3	M4	M4	M1	M1	M1	M1	DP-unk	M1	M4	M2	M2	M2								
Group 2 – TNX-1500 + MMF																														
M1121	M1421	7/10 mismatch	M3	M3	M3	M3	M3	M4	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1								
M1621	M521	full mismatch	M2	M2	M2	M2	M2	M3	M3	M3	M3	M3	M1	M1	M1	M1	M1	M1	M4	M4	M4	M4								
M6721	M5321	Haplotype identical	M2	M2	M2	M2	M2	M4	M4	M4	M4	M4	M2	M2	M2	M2	M2	M1	M3	M2	M2	M2								
M1821	M8021	full mismatch	M4	M4	M4	M4	M4	M5	M5	M5	M5	M5	M2	M2	M1	M1	M1	M1	M1	M1	M1	M1								
M7921	M11321	full mismatch	M2	M2	M2	M2	M2	M6	M6	M6	M6	M6	M1	M1	M1	M1	M1	M4	M2rec	M2	M3	M3								
M10821	M8221	full mismatch	M5	M5	M5	M5	M5	M6	M6	M2	M2	M2	M1	M1	M1	M1	M1	M1	M1	M1	M1	M1								

(Definition of Mauritius Haplotypes)

Locus		M1	M2	M3	M4	M5	M6	M7
Mafa-A	major	A1*063:01	A1*063:01	A1*063:02	A1*031:01	A1*033:01	A1*032:01	A1*060:05
							A1*047:01	
	minor	A2*05:01	A2*05:01	A2*05:11	A2*05:04	A2*05:21	A4*01:09	A5*30:01
		A4*01:01	A4*01:01	A4*01:01				
Mafa-B	major	B*057:02	B*019:03	B*011:01	B*027:02	B*036:01:02	B*033:01	B*044:04
		B*064:01	B*079:03	B*075:01	B*088:01	B*037:01	B*060:04	B*072:02
		B*104:01:01	B*148:01:01	B*079:01	B*147:01	B*045:01	B*095:01	B*164:02
		B*134:02	B*150:01:01			B*050:04	B*151:01	
		B*144:02				B*060:01		
	minor	B*046:01:01	B*098:01	B*070:02	B*051:03	B*051:04	B*045:03	B*060:06
		B*060:05:02	B*109:04	B*098:05	B*060:05:01	B*098:04	B*046:09	B*166:01
		B*131:02	B11L*01:nov:01	B*165:01	B*127:nov:01	B*149:01	B*098:06	B11L*01:05
		B*152:01N		I*01:10	I*03:01:01	B*167:01	B11L*01:04	I*01:22
							I*01:11	
Mafa-DRA	DRA*02:01:01	DRA*01:02:01	DRA*01:02:01	DRA*01:02:01	DRA*01:01:01	DRA*01:02:01	DRA*01:02:01	
Mafa-DRB	DRB*W5:01	DRB1*10:01	DRB1*10:02	DRB4*01:01	DRB4*01:02	DRB1*04:02:01	DRB1*03:nov:04	
	DRB*W21:01	DRB*W4:02	DRB*W49:01:01	DRB5*03:01:01	DRB5*03:01:01	DRB*W4:01	DRB1*15:nov:01	
							DRB*W1:03	
							DRB*W36:05	
Mafa-DQA	DQA1*24:03	DQA1*01:04	DQA1*05:03:01	DQA1*01:07	DQA1*01:06	DQA1*01:08:01	DQA1*23:01	
Mafa-DQB	DQB1*18:01:01	DQB1*06:01:01	DQB1*16:01	DQB1*06:08	DQB1*06:11	DQB1*06:01:02	DQB1*18:14	
Mafa-DPA	DPA1*07:02	DPA1*07:01	DPA1*13:01	DPA1*04:01	DPA1*13:03	DPA1*13:03	DPA1*04:01	
Mafa-DPB	DPB1*19:03	DPB1*20:01	DPB1*09:02	DPB1*03:03	DPB1*04:01	DPB1*04:01	DPB*nov:01	

Supplemental Table 2 Group stTNX/Mono Histopathology diagnosis (Banff scores)

Animal ID	POD	Diagnosis	ACR	AMR	Banff pathologic criteria for allograft rejection ^a										
					g	i	t	v	ptc	cg	ci	ct	cv	C4d	
M1021	57	No evidence of rejection			0	0	0	0	0	0	0	0	0	0	0
	179	No evidence of rejection			0	0	0	0	0	0	0	0	0	0	0
	125	No evidence of rejection			0	0	1	0	0	0	0	0	0	0	0
M10420	66	No evidence of rejection			0	1	0	0	1	0	0	0	0	0	0
	122	No evidence of rejection			0	0	0	0	0	0	0	0	0	0	0
	171	No evidence of rejection			0	0	0	x	0	0	0	0	0	0	0
M10521	60	No evidence of rejection			0	0	1	0	0	0	0	0	0	0	0
	174	No evidence of rejection			0	0	0	0	0	0	0	0	0	0	0
M3120	62	No evidence of rejection	0	0	0	0	0	0	0	0	0	0	0	0	0
	103	Mild capillaritis; No evidence of rejection, C4d (-)	0	0	1	0	1	0	1	0	0	0	0	0	0
	168	No evidence of rejection	0		0	0	0	0	0	0	0	0	0	0	0
M3920 ^b	21	Severe interstitial infiltration favor ACR2 (with arteriolitis); C4d (-)	2R		0	3	3	1	2	0	0	0	0	0	0
	28	ACR3; C4d (-)	3R		0	3	3	3	2	0	0	0	0	0	0
M6420	49	ACR1B, C4d (-)	0		0	0	1	0	1	0	0	0	0	0	0
	121	Borderline changes suspicious for acute rejection, c4d (-)	IB	0	0	2	3	0	1	0	0	0	0	0	0
	182	No evidence of rejection			0	0	0	0	0	0	2	1	0	0	0

g = Glomerulitis, i = Interstitial inflammation, t = Tubulitis, v = interstitial arteritis, ptc = Peritubular capillaritis, cg = GBM double contours, ci = Interstitial fibrosis, ct = Tubular atrophy, cv = vascular fibrous intimal thickening, C4d = C4d. Scoring = mild (1), moderate (2), severe (3)

^a Roufosse et.al. 2018

^b Euthanized on date of final biopsy

Supplemental Table 3 Group IoTNX/MMF Histopathology diagnosis (Banff scores)

Animal ID	POD	Diagnosis	ACR	AMR	Banff pathologic criteria for allograft rejection ^a									
					g	i	t	v	ptc	cg	ci	ct	cv	C4d
M11321	69	No evidence of rejection			0	0	1	0	0	0	0	0	0	0
	181	No evidence of rejection; focal subcapsular interstitial hemorrhage			0	0	0	0	0	0	0	0	0	0
M1421 ^b	36	ACR 2A	2A		0	3	3	1	2	0	0	0	0	0
M521	62	No rejection			0	0	0	0	0	0	0	0	0	0
	119	No rejection			0	0	0	0	0	0	0	0	0	0
	184	No rejection			0	0	0	0	0	0	0	0	0	0
M5321 ^b	47	ACR3, CAV	3		2	3	3	3	2	0	0	0	2	1
M8021 ^b	61	No evidence of rejection			0	0	0	0	0	0	0	0	0	0
	111	No evidence of rejection			0	0	1	0	0	0	0	0	0	0
M8221	58	No rejection, focal minimal infiltrate	0		0	0	1	0	0	0	0	0	0	0
	178	No rejection, focal IFTA	0	0	0	0	0	0	0	0	1	1	0	0
Comment: M11321 1 focal infiltrate g = Glomerulitis, i = Interstitial inflammation, t = Tubulitis, v = interstitial arteritis, ptc = Peritubular capillaritis, cg = GBM double contours, ci = Interstitial fibrosis, ct = Tubular atrophy, cv = vascular fibrous intimal thickening, C4d = C4d. Scoring = mild (1), moderate (2), severe (3) ^a Roufosse et.al. 2018 ^b Euthanized on date of final biopsy														