

**Table 1** Normal control characteristics

Control Identifier <sup>a</sup>	MiR Array Identifier <sup>b</sup>	Ages			Gender	Race <sup>c</sup>
		0-3 y	3-10 y	> 10 y		
MRNAC006	S37	0.9			M	H
MRNAC010	S39	1			M	AA
MRNAC011	S41	1			F	H
MRNAC015	S51	0.8			M	AA
MRNAC021	S60	0.75			M	AA
MRNAC023	S55	1			F	H
MRNAC026	S77	0.1			M	C
MRNAC016	S52		7		F	H
MRNAC017	S53		4		M	H
MRNAC020	S59		4		M	AA
MRNAC027	S78		5		M	AA
MRNAC001.1	S01			adult	M	C
MRNAC001.3a <sup>d</sup>	S14			adult	M	C
MRNAC002	S05			adult	F	C
MRNAC003	S23			18	F	H
MRNAC005	S36			16	M	C
MRNAC008	S38			15	F	AA
MRNAC013	S42			16	F	AA
MRNAC018	S54			12	F	AA
MRNAC024	S69			14	F	H
MRNAC028	S79			17	F	H
MRNAC029	S105			16	M	C

<sup>a</sup>RNA was prepared from the indicated controls with the identifier defined in the methods.

<sup>b</sup>The MiR Array identifier refers to the array data

<sup>c</sup>Abbreviations for race include: Hispanic (H), Caucasian (C), African American (AA)

<sup>d</sup>MRNAC001.3a is a second, independent sample draw from normal control MRNAC001.

**Table 2** Differential miR expression between normal controls and 22q11.2 deletion syndrome patients

MicroRNA	Normal		22q11.2		p-value (T-test)	p-value <sup>a</sup> (associative)	Ratio <sup>c</sup>
	Average	SD	Average	SD			
hsa-miR-185	7655	2810	2794	1238	1.15E-11	0.00E+00 <sup>b</sup>	0.37
hsa-miR-1308	66	101	26	22	3.61E-02	0.00E+00 <sup>b</sup>	0.40
hsa-miR-720	851	993	336	204	6.07E-03	5.46E-11	0.39
hsa-let-7b	3722	4770	1246	789	5.58E-03	8.95E-10	0.33
hsa-miR-150	12808	11015	5925	3090	1.46E-03	1.50E-08	0.46
hsa-let-7i	3368	2217	1989	1213	4.83E-03	3.02E-05	0.59
hsa-miR-93	1315	784	865	563	1.76E-02	6.08E-05	0.66
hsa-let-7g	3122	2486	1849	899	1.02E-02	1.18E-04	0.59
hsa-let-7a	11225	13898	5251	1731	1.93E-02	3.46E-04	0.47
hsa-let-7c	5311	7437	1971	957	1.48E-02	7.82E-04	0.37
hsa-miR-1275	51	46	30	27	3.79E-02	1.78E-03	0.58
hsa-miR-15b-3p	35	33	113	95	5.02E-04	0.00E+00 <sup>b</sup>	3.24
hsa-miR-21	41	53	153	251	4.48E-02	4.47E-09	3.71
hsa-miR-194	134	102	267	198	5.42E-03	1.94E-08	2.00
hsa-miR-324-5p	182	65	336	278	1.42E-02	1.35E-07	1.84
hsa-miR-363	650	364	1040	560	5.89E-03	8.40E-06	1.60
hsa-miR-23b	1039	490	1588	677	1.99E-03	3.63E-04	1.53
hsa-miR-361-5p	188	87	301	218	2.47E-02	3.08E-03	1.60

<sup>a</sup>Associative p values were calculated using methodologies described in the methods

<sup>b</sup>Associative p values <10<sup>-12</sup>

<sup>c</sup>Ratio is determined by dividing normal miR levels by that seen in the DiGeorge samples

Table 3

Patient	Age Yrs	Sex	Race	Facial dysmorphism	FISH 22Q11	Kidney Problems or Renal Anomalies	Auto-immunity	CD3 percent	CD3 Absolute #	LTM PHA	LTM ConA	LTM PWM	LTA Candida	LTA Tetanus	IgG	IgA	IgM
MRNAP003.1	4	F	Hispanic	Yes	Yes	proteinuria/HTN	No	35.3	1257	Normal	Normal	Normal	Normal	Normal	983	97	123
MRNAP004.1	4	M	Hispanic	Yes	Yes	No	No	39.1	2457	Normal	Normal	Normal	Normal	Low	601	28	36
MRNAP008.1	9	M	Caucasian	Yes	Yes	No	No	58.8	1088	Normal	Normal	Normal	Low	Normal	447	29.5	33
MRNAP011.1	2	F	Hispanic	Yes	Yes	Duplicated bladder, dysplastic R kidney	No	66.3	3404	Normal	Normal	Normal	Normal	low	1030	57	179
MRNAP013.1	9	F	Hispanic	Yes	Yes	No	No	53	1342	Low	Low	Low	Normal	Normal	884	104	71
MRNAP014.1	2	M	Hispanic	Yes	Yes	No	No	37.95	666	Normal	Normal	Normal	Normal	Low	652	49	54
MRNAP017.1	4	M	Afr. Amer.	Yes	Yes	No	No	32.38	1287	Normal	Normal	Normal	Normal	Low	1003	43	55
MRNAP018.1	10	F	Afr. Amer.	Yes	Yes	No	No	58.6	1369	Normal	Normal	Low	Normal	Normal	1470	210	60
MRNAP021.1	1	F	Hispanic	Yes	Yes	transient renal insuff.	No	39	2018	Low	Low	Low	Low	Low	672	42	68
MRNAP022.1	3	M	Caucasian	Yes	Yes	No	No	37.3	903	Normal	Normal	Normal	Normal	Normal	461	31	85
MRNAP027.1	2	M	Hispanic	Yes	Yes	No	No	48	2203	Normal	Normal	Normal	Normal	Normal	819	77	37
MRNAP028.1	10	M	Caucasian	Yes	Yes	No	No	28.44	356	Low	Low	Low	Normal	Normal	757	118	50
MRNAP029.1	1	M	Hispanic	Yes	Yes	No	No	58.9	2009	Normal	Normal	Normal	Low	NA	615	13	27
MRNAP030.1	6	F	Caucasian	Yes	Yes	No	No	52.3	333	Low	Low	Low	Low	Low	964	148	68
MRNAP034.1	1	F	Hispanic	Yes	Yes	No	No	27.25	1206	Normal	Normal	Normal	low	Normal	510	65	60
MRNAP035.1	1	F	Caucasian	Yes	Yes	No	No	41.5	1427	Normal	Normal	Normal	Normal	Normal	281	14.5	40
MRNAP039.1	4	F	Hispanic	Yes	Yes	No	No	47.95	1159	Normal	Normal	Normal	Low	Low	853	58	86
MRNAP040.1	10	M	Hispanic	Yes	Yes	No	No	11.15	71	Low	Low	Low	Low	Low	140	35	27
MRNAP041.1	15	F	Caucasian	Yes	Yes	No	No	44.8	1280	Normal	Normal	Normal	Normal	Normal	864	81	67
MRNAP042.1	0.75	F	Hispanic	Yes	Yes	transient renal insuff.	No	33.2	1355	Normal	Low	low	low	Normal	616	26	72
MRNAP043.1	5	F	Caucasian	Yes	Yes	solitary kidney	No	58.9	2625	Low	Low	Low	Normal	Normal	1060	126	57
MRNAP044.1	9	F	Caucasian	Yes	Yes	No	No	64.17	1049	Normal	Normal	Normal	Normal	Normal	888	16	36
MRNAP046.1	7	M	Caucasian	Yes	Yes	Horseshoe kidney	No	50.8	1493	Normal	Normal	Normal	Normal	Normal	627	105	40
MRNAP047.1	0.25	F	Hispanic	Yes	Yes	No	No	38.3	1972	Normal	low	normal	low	low	562	42	131
MRNAP048.1	0.25	F	Caucasian	Yes	Yes	No	No	33	1333	Normal	Normal	Normal	Normal	Normal	749	17	25
MRNAP052.1	0.25	F	Hispanic	Yes	Yes	bilateral hydronephrosis	No	61	1454	Normal	normal	NA	NA	NA	178	16	122
MRNAP053.1	4	F	Caucasian	Yes	Yes	NA	No	49.3	1350	normal	normal	normal	normal	low	566	75	71
MRNAP058.1	0.08	F	Caucasian	Yes	Yes	No	No	35.4	524	NA	NA	NA	NA	NA	203	<6	8
MRNAP059.1	9	M	Hispanic	Yes	Yes	NA	No	53.4	1875	Normal	Normal	Normal	Normal	Normal	1840	324	68
MRNAP060.1	17	F	Caucasian	Yes	Yes	NA	Yes <sup>a</sup>	79.8	668	Normal	Low	Low	Normal	Normal	680	78	21
MRNAP069.1	15	F	Caucasian	Yes	Yes	NA	No	58.6	1079	Normal	Normal	Normal	Normal	Normal	NA	NA	NA

<sup>a</sup>Thrombocytopenia