

**Table S1. Clinical information and HLA typing.**

	Clinical information		HLA A		HLA B		HLA C		HLA DQB1		HLA DRB1	
	Tumor; grade	Age; Gender	1st allele	2nd allele	1st allele	2nd allele	1st allele	2nd allele	1st allele	2nd allele	1st allele	2nd allele
<b>CD165</b>	-	-	A*02:05	A*24:02	B*15:01	B*50:01	C*03:03	C*06:02	DQB1*03:01	DQB1*03:01	DRB1*11:01	DRB1*11:01
<b>CM647</b>	-	-	A*01:01	A*24:02	B*13:02	B*39:06	C*06:02	C*12:03	DQB1*02:02	DQB1*05:02	DRB1*07:01	DRB1*16:01
<b>PD 42</b>	-	-	A*02:06	A*24:02	B*07:02	B*55:01	C*01:02	C*07:02	DQB1*05	DQB1*06	DRB1*01:02	DRB1*15:01
<b>RA957</b>	-	-	A*02:20	A*68:01	B*35:03	B*39:01	C*04:01	C*07:02	DQB1*03:01	DQB1*04:02	DRB1*04:01	DRB1*08:01
<b>TIL1</b>	-	-	A*02:01	A*02:01	B*18:01	B*38:01	C*05:01	C*05:01	DQB1*03:01	DQB1*05:01	DRB1*01:01	DRB1*04:08
<b>TIL3</b>	-	-	A*01:01	A*23:01	B*07:02	B*15:01	C*12:03	C*14:02	DQB1*03:01	DQB1*05:02	DRB1*12:01	DRB1*15:01
<b>3830-NJF</b>	Meningioma;1	45;M	A*02:01	A*03:01	B*07:02	B*07:02	C*07:02	C*07:02	DQB1*03:01	DQB1*03:02	DRB1*04:04	DRB1*11:01
<b>3849-BR</b>	Meningioma;3	65;M	A*01:01	A*31:01	B*38:01	B*44:02	C*05:01	C*12:03	DQB1*03:01	DQB1*03:01	DRB1*11:04	DRB1*11:04
<b>3912-BAM</b>	Meningioma;2	63;F	A*01:01	A*29:06	B*08:01	B*15:01	C*03:04	C*07:01	DQB1*02:01	DQB1*03:02	DRB1*03:01	DRB1*04:01
<b>3865-DM</b>	Meningioma;1	50;F	A*01:01	A*03:01	B*35:01	B*57:01	C*04:01	C*06:02	DQB1*03:03	DQB1*05:01	DRB1*01:01	DRB1*07:01
<b>UWB.1 289 mut</b>	-	-	A*03:01	A*68:01	B*07:02	B*07:02	C*03:32	C*07:02	n.a	n.a	n.a	n.a
<b>*JY</b>	-	-	A*02:01	A*02:01	B*07:02	B*07:02	C*07:02	C*07:02	HLA DQA1*30:11	HLADPB1*02:01	DRB1*04:04	DRB1*13:01

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