

**Table 1: Details of *KIR* allele-level sequencing of workshop populations, including sample size, *KIR* genes, *KIR* typing method, sample contributor and sequencing location**

Population	N	Genes	Method	Sample contributor	<sup>\$</sup> Sequencing
Uganda	174	<i>KIR3DL1/S1</i> , <i>KIR3DL2</i> and <i>KIR3DL3</i>	NGS	Traherne/Moffett	Local
Egypt	136	<i>KIR3DL1/S1</i> , <i>KIR3DL2</i> and <i>KIR3DL3</i>	NGS	Elfishawi	Stanford
European American	378	<i>KIR3DL1/S1</i> , <i>KIR3DL2</i> and <i>KIR3DL3</i>	NGS	Hollenbach/Oksenberg	Stanford
Papua New Guinea	185	<i>KIR3DL1/S1</i> , <i>KIR3DL2</i> and <i>KIR3DL3</i>	NGS	Mentzer/Oppenheimer	Stanford
Spain	153	<i>KIR3DL1/S1</i> , <i>KIR3DL2</i> and <i>KIR3DL3</i>	NGS	GETHIT <sup>#</sup>	Stanford
Curitiba	42	<i>KIR3DL2</i>	Sanger	Augusto/Petzl-Erler	Local
Kaingang	30	<i>KIR3DL2</i>	Sanger	Augusto/Petzl-Erler	Local
Guarani	49	<i>KIR3DL2</i>	Sanger	Augusto/Petzl-Erler	Local
Japanese-Brazilian	22	<i>KIR3DL2</i>	Sanger	Augusto/Petzl-Erler	Local
Mexican Mestizos	100	<i>KIR3DL1S1</i>	Sanger	Gorodezky	Local
Germany	564253	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Poland	6509	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Kosovo	649	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Serbia	857	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Croatia	1947	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Brazil	381	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Syria	554	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Bosnia-Herzegovina	992	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Sri Lanka	1809	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Austria	1374	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Czech Republic	620	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Kazakhstan	1701	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Spain	1053	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
France	865	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
India	393	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
USA	903	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Vietnam	546	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Greece	2695	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Hungary	833	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Romania	1425	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Afghanistan	541	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Great Britain	755	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Burundi	398	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Albania	469	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Lebanon	437	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Other	8326	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Russia	5288	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Switzerland	405	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Portugal	1450	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Turkey	26119	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Netherlands	981	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Iran	1059	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Italy	4416	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Morocco	449	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local
Ukraine	653	<i>KIR3DL2</i> exons 4 and 5	NGS	DKMS	Local

<sup>#</sup>**GETHIT** means for Spanish Working Group in Histocompatibility and Transplant Immunology study;

<sup>\$</sup>**Local sequencing** means *KIR* genotyping was performed by the participant's lab either using a NGS exome capture method [38] for *KIR* genes containing three Ig receptors (Traherne/Moffett lab) or Sanger sequencing for *KIR3DL1S1* (Gorodezky lab) and *KIR3DL2* (Augusto/Petzl-Erler) or an in-house developed NGS short amplicon approach for *KIR3DL2* (DKMS lab). For **Stanford Sequencing**, *KIR* genotyping was performed at Stanford using a NGS exome capture method [38].