	Field 1					Field 2					Field 3		
	scHLAcount	arcasHLA	HLAminer	PHLAT	OptiType	scHLAcount	arcasHLA	HLAminer	PHLAT	OptiType	scHLAcount	arcasHLA	PHLAT
A	$0.68 \pm 0.04$	$0.86 \pm 0.03$	$0.71 \pm 0.03$	0.89 ± 0.03	0.92 ± 0.02	$0.44 \pm 0.04$	$0.64 \pm 0.03$	0.41 ± 0.03	0.81 ± 0.03	$0.87 \pm 0.03$	$0.06 \pm 0.02$	0.79 ± 0.03	0.8 ± 0.03
В	0.44 ± 0.04	$0.82 \pm 0.02$	$0.56 \pm 0.03$	$0.88 \pm 0.02$	0.92 ± 0.02	$0.21 \pm 0.03$	0.63 ± 0.03	0.2 ± 0.03	0.81 ± 0.03	0.9 ± 0.02	0.2 ± 0.03	0.8 ± 0.03	0.83 ± 0.03
С	$0.82 \pm 0.03$	$0.82 \pm 0.02$	$0.66 \pm 0.02$	$0.91 \pm 0.02$	0.94 ± 0.01	$0.16 \pm 0.03$	$0.55 \pm 0.03$	$0.35 \pm 0.03$	$0.81 \pm 0.03$	0.9 ± 0.02	$0.02 \pm 0.01$	$0.64 \pm 0.03$	$0.82 \pm 0.03$
DPA1	$0.71 \pm 0.02$	$0.95 \pm 0.02$	$0.66 \pm 0.02$	_	_	$0.69 \pm 0.02$	$0.94 \pm 0.02$	$0.54 \pm 0.03$			$0.65 \pm 0.03$	$0.94 \pm 0.02$	_
DPB1	$0.25 \pm 0.03$	$0.85 \pm 0.03$	$0.43 \pm 0.02$	_	_	$0.25 \pm 0.03$	$0.84 \pm 0.03$	$0.42 \pm 0.02$	_	_	$0.34 \pm 0.04$	0.84 ± 0.03	_
DQA1	$0.81 \pm 0.03$	$0.92 \pm 0.02$	$0.85 \pm 0.02$	0.94 ± 0.01	_	$0.55 \pm 0.03$	$0.88 \pm 0.02$	$0.55 \pm 0.03$	$0.86 \pm 0.03$	_	$0.71 \pm 0.04$	$0.88 \pm 0.02$	0.86 ± 0.03
DQB1	$0.83 \pm 0.03$	0.91 ± 0.02	$0.88 \pm 0.02$	0.91 ± 0.02		$0.54 \pm 0.04$	0.76 ± 0.03	$0.67 \pm 0.03$	$0.89 \pm 0.02$		$0.59 \pm 0.04$	$0.78 \pm 0.03$	$0.87 \pm 0.02$
DRB1	$0.7 \pm 0.04$	0.9 ± 0.02	$0.73 \pm 0.03$	$0.89 \pm 0.03$	_	$0.48 \pm 0.04$	$0.88 \pm 0.03$	0.34 ± 0.03	$0.85 \pm 0.03$		0.49 ± 0.04	$0.88 \pm 0.03$	$0.78 \pm 0.03$

## Supplemental Table 1 - 5'-based scRNA-seq success

Success of predicted genotypes from 5'-based scRNA-seq sequences. Values represent mean success +/- SEM

	Field 1					Field 2					Field 3		
	scHLAcount	$\operatorname{arcasHLA}$	HLAminer	PHLAT	OptiType	scHLAcount	$\operatorname{arcasHLA}$	HLAminer	PHLAT	OptiType	scHLAcount	$\operatorname{arcasHLA}$	PHLAT
A	$0.41 \pm 0.03$	$0.86 \pm 0.03$	0.7 ± 0.03	$0.88 \pm 0.03$	0.81 ± 0.03	$0.24 \pm 0.02$	0.63 ± 0.03	0.4 ± 0.03	0.8 ± 0.03	0.76 ± 0.04	$0.02 \pm 0.01$	$0.59 \pm 0.03$	0.44 ± 0.04
В	$0.26 \pm 0.02$	$0.82 \pm 0.03$	$0.56 \pm 0.03$	$0.88 \pm 0.02$	0.81 ± 0.03	$0.13 \pm 0.02$	$0.62 \pm 0.03$	0.2 ± 0.03	0.81 ± 0.03	0.78 ± 0.03	$0.07 \pm 0.02$	0.6 ± 0.03	$0.58 \pm 0.04$
С	$0.48 \pm 0.02$	$0.81 \pm 0.02$	$0.66 \pm 0.02$	0.9 ± 0.02	$0.82 \pm 0.03$	$0.1 \pm 0.02$	$0.55 \pm 0.03$	0.34 ± 0.03	0.81 ± 0.03	0.78 ± 0.03	$0.01 \pm 0.01$	$0.47 \pm 0.03$	$0.44 \pm 0.04$
DPA1	$0.62 \pm 0.02$	$0.94 \pm 0.02$	$0.66 \pm 0.02$	_		$0.6 \pm 0.02$	$0.93 \pm 0.02$	$0.53 \pm 0.03$	_	_	$0.56 \pm 0.03$	$0.92 \pm 0.02$	_
DPB1	$0.21 \pm 0.03$	$0.84 \pm 0.03$	$0.42 \pm 0.02$	_	_	$0.21 \pm 0.03$	$0.83 \pm 0.03$	$0.41 \pm 0.02$	_	_	$0.21 \pm 0.03$	$0.83 \pm 0.03$	
DQA1	$0.72 \pm 0.03$	$0.91 \pm 0.02$	$0.74 \pm 0.03$	0.93 ± 0.02	_	$0.48 \pm 0.03$	$0.87 \pm 0.02$	$0.47 \pm 0.03$	$0.85 \pm 0.03$	_	$0.45 \pm 0.03$	$0.87 \pm 0.02$	$0.72 \pm 0.03$
DQB1	$0.53 \pm 0.02$	0.9 ± 0.02	$0.75 \pm 0.03$	0.9 ± 0.02	_	$0.35 \pm 0.03$	$0.75 \pm 0.03$	$0.56 \pm 0.03$	$0.88 \pm 0.02$	_	0.3 ± 0.03	$0.66 \pm 0.03$	0.7 ± 0.03
DRB1	0.4 ± 0.02	0.9 ± 0.03	0.72 ± 0.03	0.88 ± 0.03	_	$0.28 \pm 0.02$	$0.87 \pm 0.03$	0.33 ± 0.03	0.84 ± 0.03		$0.29 \pm 0.03$	0.88 ± 0.03	0.67 ± 0.04

Supplemental Table 2 - 5'-based scRNA-seq accuracy
Accuracy of predicted genotypes from 5'-based scRNA-seq sequences. Values represent mean accuracy +/- SEM

	Field 1				Field 2				Field 3	
	arcasHLA	HLAminer	PHLAT	OptiType	arcasHLA	HLAminer	PHLAT	OptiType	arcasHLA	PHLAT
A	$0.95 \pm 0.03$	0.5 ± 0.06	$1 \pm 0$	1 ± 0	$0.58 \pm 0.07$	$0.35 \pm 0.07$	$0.95 \pm 0.03$	0.95 ± 0.03	$0.38 \pm 0.06$	$0.72 \pm 0.08$
В	0.9 ± 0.04	0.4 ± 0.04	$1 \pm 0$	$1 \pm 0$	$0.82 \pm 0.05$	0.2 ± 0.05	0.9 ± 0.05	$1 \pm 0$	$0.7 \pm 0.06$	$0.55 \pm 0.09$
С	$0.98 \pm 0.02$	0.48 ± 0.08	$0.98 \pm 0.02$	$1 \pm 0$	$0.85 \pm 0.06$	0.3 ± 0.06	$0.82 \pm 0.05$	0.92 ± 0.04	$0.62 \pm 0.06$	$0.42 \pm 0.07$
DPA1	0.95 ± 0.03	$0.48 \pm 0.02$	_	_	0.95 ± 0.03	0.38 ± 0.04	_	_	0.92 ± 0.05	_
DPB1	0.75 ± 0.05	0.32 ± 0.06	_	_	$0.75 \pm 0.05$	$0.28 \pm 0.05$	_	_	$0.75 \pm 0.05$	_
DQA1	0.78 ± 0.05	$0.58 \pm 0.04$	$0.82 \pm 0.05$	_	0.72 ± 0.06	0.38 ± 0.06	$0.82 \pm 0.05$	_	0.72 ± 0.06	0.58 ± 0.09
DQB1	1 ± 0	0.15 ± 0.06	1 ± 0	_	0.4 ± 0.06	$0.07 \pm 0.04$	0.92 ± 0.04	_	$0.05 \pm 0.03$	0.68 ± 0.07
DRB1	0.9 ± 0.04	0.55 ± 0.06	1 ± 0	_	0.9 ± 0.04	$0.32 \pm 0.07$	0.98 ± 0.02	_	0.9 ± 0.04	0.72 ± 0.08
DRB3	0.32 ± 0.11	$0.27 \pm 0.11$	_	_	0.32 ± 0.11	0.18 ± 0.09	_	_	0.32 ± 0.11	_
DRB4	0.3 ± 0.1	0.75 ± 0.1			$0.25 \pm 0.08$	$0.25 \pm 0.1$			$0.25 \pm 0.08$	
DRB5	$0.57 \pm 0.08$	0.71 ± 0.09		_	0.5 ± 0.09	0.57 ± 0.1	_	_	0.5 ± 0.09	_

# Supplemental Table 3 - 3'-based scRNA-seq accuracy

Accuracy of predicted genotypes from 3'-based scRNA-seq sequences. Values represent mean accuracy +/- SEM

	Field 1				Field 2				Field 3	
	arcasHLA	HLAminer	PHLAT	OptiType	arcasHLA	HLAminer	PHLAT	OptiType	arcasHLA	PHLAT
A	$1 \pm 0$	$0.56 \pm 0.06$	1 ± 0	$1 \pm 0$	0.94 ± 0.06	$0.25 \pm 0.09$	1 ± 0	0.94 ± 0.06	$0.94 \pm 0.06$	$0.81 \pm 0.13$
В	$1 \pm 0$	$0.75 \pm 0.09$	$1 \pm 0$	$1 \pm 0$	$1 \pm 0$	$0.25 \pm 0.13$	$1 \pm 0$	1 ± 0	$1 \pm 0$	$0.75 \pm 0.16$
С	$1 \pm 0$	$1 \pm 0$	$1 \pm 0$	$1 \pm 0$	$1 \pm 0$	0.44 ± 0.11	$0.94 \pm 0.06$	$0.94 \pm 0.06$	$1 \pm 0$	$0.31 \pm 0.16$
DPA1	1 ± 0	0.69 ± 0.09	_	_	1 ± 0	0.69 ± 0.09	_	_	$1 \pm 0$	
DPB1	1 ± 0	$0.75 \pm 0.09$	_	_	1 ± 0	0.75 ± 0.09	_	_	1 ± 0	_
DQA1	$1 \pm 0$	$0.81 \pm 0.09$	$1 \pm 0$		$1 \pm 0$	$0.44 \pm 0.15$	$1 \pm 0$	_	$1 \pm 0$	$0.88 \pm 0.08$
DQB1	$0.88 \pm 0.08$	$0.88 \pm 0.08$	$1 \pm 0$		$0.88 \pm 0.08$	$0.56 \pm 0.11$	$1 \pm 0$	_	$0.88 \pm 0.08$	$0.88 \pm 0.08$
DRB1	$1 \pm 0$	$1 \pm 0$	$1 \pm 0$		$1 \pm 0$	$0.69 \pm 0.09$	$1 \pm 0$	_	$1 \pm 0$	$0.62 \pm 0.16$
DRB3	$1 \pm 0$	$1 \pm 0$	_	_	$1 \pm 0$	$1 \pm 0$	_	_	$1 \pm 0$	_
DRB4	$0.67 \pm 0.1$	1 ± 0			$0.67 \pm 0.1$	0.33 ± 0.2			$0.67 \pm 0.1$	
DRB5	$0.75 \pm 0.18$	$0.75 \pm 0.18$		_	$0.75 \pm 0.18$	0.5 ± 0.2			$0.75 \pm 0.18$	

## Supplemental Table 4 - 5'-based scRNA-seq accuracy

Accuracy of predicted genotypes from bulk RNA-seq sequences. Values represent mean accuracy +/- SEM

	Field 1				Field 2				Field 3					
	arcasH	$\mathbf{L}\mathbf{A}$	HLAm	iner	arcasH	$\mathbf{L}\mathbf{A}$	HLAm	iner	arcasH	$\mathbf{L}\mathbf{A}$	HLAmi	ner		
	Unfiltered		Unfiltered		Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered		Unfiltered	Filtered		
DRB3	$0.46 \pm 0.03$	0.79 ± 0.04	0.44 ± 0.03	0.78 ± 0.03	$0.46 \pm 0.03$	0.79 ± 0.04	$0.35 \pm 0.03$	0.65 ± 0.04	$0.46 \pm 0.03$	$0.79 \pm 0.04$	_	_		
DRB4	0.44 ± 0.02	0.91 ± 0.02	0.77 ± 0.04	0.88 ± 0.03	0.4 ± 0.02	0.69 ± 0.04	0.14 ± 0.03	0.17 ± 0.03	0.39 ± 0.03	0.66 ± 0.04	_	_		
DRB5	$0.35 \pm 0.03$	0.9 ± 0.03	$0.33 \pm 0.03$	0.83 ± 0.03	$0.35 \pm 0.03$	$0.88 \pm 0.03$	$0.15 \pm 0.03$	0.33 ± 0.04	$0.33 \pm 0.03$	$0.86 \pm 0.03$	_	_		

## Supplemental Table 5 - HLA-DRB345 accuracy

Accuracy of *HLA-DRB345* genotypes filtered or unfiltered by KNN copy number classifier. Values represent mean accuracy +/- SEM

	Field 1							Field 2	}							Field 3				
	*	arcasHLA	HLAminer		PHLAT		OptiType		}	arcasHLA	HLAminer		PHLAT		OptiType		arcasHLA			PHLAT
	Т1	<b>T2</b>	Т1	<b>T2</b>	T1	<b>T2</b>	Т1	T2	Т1	<b>T2</b>	Т1	<b>T2</b>	Т1	<b>T2</b>	Т1	T2	Т1	<b>T2</b>	Т1	<b>T2</b>
A	0.9 ± 0.02		$0.68 \pm 0.03$	0.7 ± 0.03	0.9 ± 0.02		$0.85 \pm 0.03$	0.86 ± 0.03	$0.67 \pm 0.03$	$0.64 \pm 0.03$	0.33 ± 0.03	$0.41 \pm 0.03$	0.84 ± 0.03	$0.81 \pm 0.03$	0.8 ± 0.03	0.81 ± 0.03		$0.64 \pm 0.04$	$0.72 \pm 0.04$	$0.66 \pm 0.04$
В	0.86 ± 0.02	$0.82 \pm 0.02$	0.52 ± 0.03	0.56 ± 0.03	0.9 ± 0.02		0.86 ± 0.03	0.86 ± 0.03	$0.65 \pm 0.03$	0.63 ± 0.03	0.22 ± 0.03	0.2 ± 0.03	0.8 ± 0.03	0.81 ± 0.03	0.83 ± 0.03	0.83 ± 0.03	0.72 ± 0.04	0.71 ± 0.04	0.75 ± 0.04	0.74 ± 0.04
С	0.8 ± 0.03		0.67 ± 0.03		0.9 ± 0.02		0.85 ± 0.03	0.88 ± 0.03	$0.55 \pm 0.03$	0.55 ± 0.03	0.41 ± 0.03	0.35 ± 0.03	0.8 ± 0.03	0.81 ± 0.03	0.81 ± 0.03	0.83 ± 0.03		0.54 ± 0.03	0.62 ± 0.04	$0.62 \pm 0.04$
DPA1	0.96 ± 0.01	0.95 ± 0.02	0.66 ± 0.02	0.66 ± 0.02	_		_	_	$0.95 \pm 0.01$	0.94 ± 0.02	0.55 ± 0.03	0.54 ± 0.03	_	_	_	_		0.93 ± 0.02		_
DPB1	0.9 ± 0.02	0.85 ± 0.03	0.44 ± 0.03	0.43 ± 0.02	_		_	_	$0.88 \pm 0.02$	0.84 ± 0.03	0.44 ± 0.03	0.41 ± 0.02	_	_	_	_	$0.88 \pm 0.02$	0.83 ± 0.03		_
DQA1	0.94 ± 0.02	0.92 ± 0.02	0.75 ± 0.02	0.74 ± 0.02	0.95 ± 0.02	0.94 ± 0.01	_	_	0.9 ± 0.02	$0.88 \pm 0.02$	0.45 ± 0.03	$0.47 \pm 0.03$	0.89 ± 0.02	0.86 ± 0.03	_	_		0.88 ± 0.02	0.78 ± 0.03	0.74 ± 0.03
DQB1	0.94 ± 0.02	0.91 ± 0.02	0.79 ± 0.02	0.75 ± 0.03	0.93 ± 0.02	0.91 ± 0.02	_	_	$0.77 \pm 0.03$	0.76 ± 0.03	0.62 ± 0.03	0.56 ± 0.03	0.91 ± 0.02	0.89 ± 0.02	_	_	0.76 ± 0.03	0.72 ± 0.03	0.86 ± 0.03	0.83 ± 0.03
DRB1	0.93 ± 0.02	0.9 ± 0.02	0.71 ± 0.03	0.73 ± 0.03	0.93 ± 0.02	0.89 ± 0.03	_	_	0.9 ± 0.02	0.88 ± 0.03	0.36 ± 0.03	0.34 ± 0.03	0.88 ± 0.03	0.85 ± 0.03	_	_	0.91 ± 0.02	0.89 ± 0.03	$0.77 \pm 0.03$	$0.75 \pm 0.03$
DRB3	0.82 ± 0.04	0.82 ± 0.04	0.71 ± 0.05	0.79 ± 0.04	_	_	_	_	0.82 ± 0.04	0.82 ± 0.04	$0.62 \pm 0.05$	$0.66 \pm 0.05$	_	_	_	_	0.82 ± 0.04	0.82 ± 0.04	_	_
DRB4	0.95 ± 0.03	0.92 ± 0.03	0.91 ± 0.03	0.89 ± 0.03	_	_	_	_	$0.81 \pm 0.05$	0.69 ± 0.06	0.15 ± 0.05	$0.17 \pm 0.05$	_	_	_	_	0.79 ± 0.05	0.66 ± 0.06	_	_
DRB5	0.91 ± 0.04	0.91 ± 0.04	0.77 ± 0.06	0.84 ± 0.05	_	_	_	_	0.91 ± 0.04	0.91 ± 0.04	0.49 ± 0.07	0.33 ± 0.07	_	_	_	_	0.9 ± 0.05	0.9 ± 0.04	_	_

## Supplemental Table 6 - Reproducibility of genotype prediction accuracy

Accuracy of predicted genotypes from repeated sampling of individuals at time point 1 (T1) and time point 2 (T2). Values represent mean accuracy +/- SEM

	Field 1						Field 2						Field 3	1		
	Composite AOP	Composite AO	arcasHLA	HLAminer	PHLAT	OptiType	Composite AOP	Composite AO	arcasHLA	HLAminer	PHLAT	OptiType	Composite AOP	Composite AO	arcasHLA	PHLAT
MHC All	0.9 ± 0.02	$0.89 \pm 0.02$	$0.87 \pm 0.02$	0.67 ± 0.01	0.67 ± 0.01	0.3 ± 0.01	$0.86 \pm 0.02$	0.84 ± 0.02	$0.76 \pm 0.02$	0.41 ± 0.01	$0.62 \pm 0.02$	0.29 ± 0.01	$0.78 \pm 0.02$	$0.74 \pm 0.02$	$0.74 \pm 0.02$	$0.45 \pm 0.02$
мнс і	0.9 ± 0.02	0.89 ± 0.02	0.83 ± 0.02	$0.63 \pm 0.02$	0.89 ± 0.02	0.81 ± 0.03	$0.85 \pm 0.02$	0.84 ± 0.02	0.6 ± 0.02	0.31 ± 0.02	0.8 ± 0.02	0.78 ± 0.03	$0.64 \pm 0.02$	$0.56 \pm 0.02$	$0.56 \pm 0.02$	0.49 ± 0.03
MHC II	0.9 ± 0.02	0.9 ± 0.02	0.9 ± 0.02	$0.68 \pm 0.02$	0.54 ± 0.01	0 ± 0	$0.87 \pm 0.02$	0.84 ± 0.02	$0.84 \pm 0.02$	0.46 ± 0.02	0.52 ± 0.01	0 ± 0	$0.85 \pm 0.02$	0.83 ± 0.02	0.83 ± 0.02	$0.42 \pm 0.01$
A	0.89 ± 0.03	0.89 ± 0.03	0.86 ± 0.03	0.7 ± 0.03	0.88 ± 0.03	0.81 ± 0.03	0.84 ± 0.03	0.82 ± 0.03	0.63 ± 0.03	0.4 ± 0.03	0.8 ± 0.03	0.76 ± 0.04	0.64 ± 0.03	$0.59 \pm 0.03$	0.59 ± 0.03	0.44 ± 0.04
В	0.88 ± 0.02	$0.88 \pm 0.02$	0.82 ± 0.03	$0.56 \pm 0.03$	$0.88 \pm 0.02$	0.81 ± 0.03	0.84 ± 0.03	$0.85 \pm 0.03$	$0.62 \pm 0.03$	0.2 ± 0.03	0.81 ± 0.03	0.78 ± 0.03	0.68 ± 0.03	0.6 ± 0.03	0.6 ± 0.03	0.58 ± 0.04
С	0.92 ± 0.02	0.91 ± 0.02	0.81 ± 0.02	$0.66 \pm 0.02$	0.9 ± 0.02	0.82 ± 0.03	$0.86 \pm 0.02$	0.84 ± 0.02	$0.55 \pm 0.03$	0.34 ± 0.03	0.81 ± 0.03	0.78 ± 0.03	0.59 ± 0.03	$0.47 \pm 0.03$	$0.47 \pm 0.03$	0.44 ± 0.04
DPA1	0.94 ± 0.02	0.94 ± 0.02	0.94 ± 0.02	$0.66 \pm 0.02$		_	0.93 ± 0.02	0.93 ± 0.02	0.93 ± 0.02	0.53 ± 0.03		_	0.92 ± 0.02	0.92 ± 0.02	0.92 ± 0.02	_
DPB1	0.84 ± 0.03	0.84 ± 0.03	0.84 ± 0.03	0.42 ± 0.02		_	0.83 ± 0.03	0.83 ± 0.03	0.83 ± 0.03	0.41 ± 0.02		_	0.83 ± 0.03	0.83 ± 0.03	0.83 ± 0.03	_
DQA1	0.91 ± 0.02	0.91 ± 0.02	0.91 ± 0.02	0.74 ± 0.03	0.93 ± 0.02	_	$0.87 \pm 0.02$	$0.87 \pm 0.02$	$0.87 \pm 0.02$	0.47 ± 0.03	$0.85 \pm 0.03$	_	$0.87 \pm 0.02$	$0.87 \pm 0.02$	$0.87 \pm 0.02$	0.72 ± 0.03
DQB1	0.9 ± 0.02	0.9 ± 0.02	0.9 ± 0.02	0.75 ± 0.03	0.9 ± 0.02	_	$0.88 \pm 0.02$	0.75 ± 0.03	0.75 ± 0.03	0.56 ± 0.03	0.88 ± 0.02	_	0.79 ± 0.03	0.66 ± 0.03	0.66 ± 0.03	0.7 ± 0.03
DRB1	0.9 ± 0.03	0.9 ± 0.03	0.9 ± 0.03	0.72 ± 0.03	0.88 ± 0.03	_	$0.87 \pm 0.03$	$0.87 \pm 0.03$	$0.87 \pm 0.03$	0.33 ± 0.03	0.84 ± 0.03	_	$0.88 \pm 0.03$	0.88 ± 0.03	0.88 ± 0.03	0.67 ± 0.04
DRB3	0.8 ± 0.04	0.8 ± 0.04	0.8 ± 0.04	$0.77 \pm 0.03$		_	0.8 ± 0.04	0.8 ± 0.04	0.8 ± 0.04	0.64 ± 0.04	_	_	0.8 ± 0.04	0.8 ± 0.04	0.8 ± 0.04	_
DRB4	0.92 ± 0.02	0.92 ± 0.02	0.92 ± 0.02	$0.89 \pm 0.02$		_	0.69 ± 0.04	0.69 ± 0.04	0.69 ± 0.04	$0.17 \pm 0.03$	_		0.66 ± 0.04	0.66 ± 0.04	$0.66 \pm 0.04$	_
DRB5	0.88 ± 0.03	0.88 ± 0.03	0.88 ± 0.03	0.8 ± 0.03		_	0.88 ± 0.03	0.88 ± 0.03	0.88 ± 0.03	0.31 ± 0.04		_	0.86 ± 0.03	0.86 ± 0.03	0.86 ± 0.03	_

## Supplemental Table 7 - Composite genotype accuracy

Success of predicted genotypes from using decision tree-based composites. AOP = arcasHLA, OptiType, and PHLAT, AO = arcasHLA and OptiType. Values represent mean accuracy +/- SEM