

Supplementary Table 5 – Variable Importance for predicting BCLM CD206+ using primary tumor clusters. Larger values imply higher variable importance. Clusters used in the optimal model are marked with “X.”

Cluster in Primary	Included In Optimal Model	Variable Importance
CD206+	X	0.732
CD8a+PD1+	X	0.696
CD68+		0.661
CD56+		0.661
CD4+PD1+		0.661
PD-L1+		0.643
CD68+CD163+CD206+		0.634
HIF1 $\alpha$ +		0.571
$\alpha$ SMA+		0.571
MMP9+		0.554
pERK+		0.554
E-cad+		0.554
CD163+		0.536
CD8a+PD1-		0.536
Ki-67+		0.536
Collagen+		0.536
CD31+		0.536
CD14+		0.518
CD68+MMP9+		0.518
CD163+MMP9+		0.500