

groups	# of samples	Steatosis vs MASH	AUC	P-value
Obese ( $\geq 25\text{kg/m}^2$ )	118	53 vs 65	0.968	1.31E-18
non-obese ( $< 25\text{kg/m}^2$ )	15	7 vs 8	1.000	6.34E-04
PNPLA3 mut	91	43 vs 48	0.951	1.14E-17
PNPLA3 wt	28	13 vs 15	1.000	1.16E-06
Diabetic	36	11 vs 25	0.898	2.51E-05
non-diabetic	97	49 vs 48	0.976	2.76E-22

**Supplementary Fig. 8.** Application of the 6 signature gene set to MASLD progression in different subtype. ROC result describing 6 signature gene set accuracy in different subgroups (obese or non-obese, PNPLA3 mut or wildtype, diabetic or non-diabetic).