

Table S10 Cell-type common and unique associated genes identified from TWAS analysis, based on estimated CTS expression profiles of all cell types in the target tissue

		Summary of trait-associated genes ($p < 0.05$) without adjusting for multiple testing				Summary of trait-associated genes after adjusting for multiple testing ($FDR < 0.05$)					
Tissue	Disease/Disorder	Cell type specific TWAS	Cell type common TWAS gene number	Total TWAS gene number	Proportion of cell type common TWAS gene	Cell type specific TWAS gene number	Cell type common TWAS gene number	Total TWAS gene number	Proportion of cell type common TWAS gene	Case size	Sample size
		gene number	number	gene number	gene	TWAS gene number	number	gene number			
Frontal cortex	Anxiety	417	73	490	0.149	0	0	0	0	7163	479906
Frontal cortex	Bipolar	260	45	305	0.148	0	0	0	0	1603	479906
Frontal cortex	Depression	155	14	169	0.083	0	0	0	0	27875	479906
Frontal cortex	Psychosis	40	1	41	0.024	0	0	0	0	1070	479906
Pancreas	Prediabetes	394	108	502	0.215	0	0	0	0	1039	479906
Pancreas	T1DM	374	72	446	0.161	0	0	0	0	3965	479906
Pancreas	T2DM	1144	1353	2497	0.542	396	54	450	0.120	43371	479962
Pancreas	T2DM related hospitalization	1352	1349	2701	0.499	192	3	195	0.015	38553	479906
Pancreas	T2DM requires insulin	736	233	969	0.240	1	0	1	0	5627	479906
Subcutaneous adipose	Obesity	1128	1632	2760	0.591	400	83	483	0.172	122160	479906
Subcutaneous adipose	CAD	836	328	1164	0.282	0	0	0	0	80164	479962
Subcutaneous adipose	T2DM	845	657	1502	0.437	0	0	0	0	43371	479962
Subcutaneous adipose	Hypertension	843	849	1692	0.502	4	1	5	0	194236	479962
Subcutaneous adipose	Heart failure	1004	1328	2332	0.569	1	0	0	0	39744	479962
Subcutaneous adipose	Stroke	569	442	1011	0.437	0	0	0	0	29348	479962
Visceral adipose	Obesity	754	1256	2010	0.625	101	17	118	0.144	122160	479962
Visceral adipose	CAD	361	97	458	0.212	0	0	0	0	80164	479962
Visceral adipose	T2DM	854	646	1500	0.431	0	0	0	0	43371	479962
Visceral adipose	Hypertension	1051	965	2016	0.479	1	0	1	0	194236	479962
Visceral adipose	Heart failure	438	95	533	0.178	0	0	0	0	39744	479962
Visceral adipose	Stroke	850	374	1224	0.306	0	0	0	0	29348	479962