

**Table S1 Association between *Tpcn2* SNPs and diabetic traits in humans**

SNP	Location (Mb)	Functional location	Fasting Insulin		HOMA_IR	
			Unadjusted p-value (effect)	BH adjusted p-value	Unadjusted p-value (effect)	BH adjusted p-value
rs2376554	Chr 11:68811445	upstream				
rs749363	Chr. 11:68812024	upstream				
rs7932947	Chr. 11:68812781	upstream				
rs55918435	Chr. 11:68813015	upstream				
rs35678276	Chr. 11:68814544	upstream				
rs59234009	Chr. 11:68814545	upstream				
rs56932042	Chr. 11:68814568	upstream				
rs10792010	Chr. 11:68814887	upstream				
rs3018679	Chr. 11:68814894	upstream				
rs59427626	Chr. 11:68815258	upstream				
rs35443329	Chr. 11:68815437	upstream				
<b>rs10750836</b>	Chr. 11:68815523	upstream	0.5689	0.5689	0.6327	0.6643
rs12790685	Chr. 11:68815948	upstream				
rs12791187	Chr. 11:68815949	upstream				
rs4930642	Chr. 11:68816370	UTR 5'				
rs4453241	Chr. 11:68816825	intron				
rs11823877	Chr. 11:68819011	intron				
rs11228458	Chr. 11:68819204	intron				
<b>rs11604251</b>	Chr. 11:68820429	intron	0.0073	0.0511*	0.6643	0.6643
<b>rs10792012</b>	Chr. 11:68820569	intron	0.5117	0.5689	0.6216	0.6643
rs6591367	Chr. 11:68821947	intron				
<b>rs7127082</b>	Chr. 11:68822023	intron	0.02475	0.0937	0.0392	0.2415
<b>rs7942690</b>	Chr. 11:68823940	intron	0.5004	0.5689	0.6251	0.6643
<b>rs3019776</b>	Chr. 11:68826155	intron	0.5221	0.5689	0.2321	0.6499
rs7930211	Chr. 11:68827717	intron				
<b>rs11228469</b>	Chr. 11:68829638	intron	0.0868	0.2430	0.1142	0.3997
<b>rs3829236</b>	Chr. 11:68838028	intron	0.3042	0.5689	0.3242	0.6643
rs4930263	Chr. 11:68847005	intron				
rs2290418	Chr. 11:68847687	intron				
rs2376558	Chr. 11:68851414	missense				
<b>rs753559</b>	Chr. 11:68851605	intron	0.02676	0.0937	0.03936	0.2415
<b>rs3750967</b>	Chr. 11:68855112	intron	0.4648	0.5689	0.5844	0.6643
<b>rs1060435</b>	Chr. 11:68855595	UTR 3'	0.2497	0.5689	0.507	0.6643

<b>rs4930265</b>	Chr. 11:68855954	UTR 3'	0.5297	0.5689	0.5493	0.6643
rs3018681	Chr. 11:68856224	UTR 3'				
<b>rs3168115</b>	Chr. 11:68858090	downstream	0.5077	0.5689	0.5037	0.6643
<b>rs10736671</b>	Chr. 11:68858907	downstream	0.0038	0.0511*	0.05174	0.2415
rs3018673	Chr. 11:68859608	downstream				
rs7930709	Chr. 11:68860223	downstream				

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39 human SNPs within or near Tpcn2 were used to determine association with diabetes and related traits. DIAGRAM assessed association between 11 SNPs (in italics) and diabetes while MAGIC assessed association between 14 SNPs (in bold) and fasting glucose, fasting insulin and the homeostatic model assessment of insulin resistance (HOMA\_IR). Associations between 14 SNPs and fasting insulin and HOMA\_IR, as assessed by MAGIC, are listed above. Multiple comparisons were adjusted for using the Benjamini and Hochberg FDR method (BH). No significant associations were found between the SNPs and diabetes or fasting glucose. Associations could not be determined for SNPs that are not in bold because of insufficient data. \* p = 0.051 after adjusting for multiple corrections.