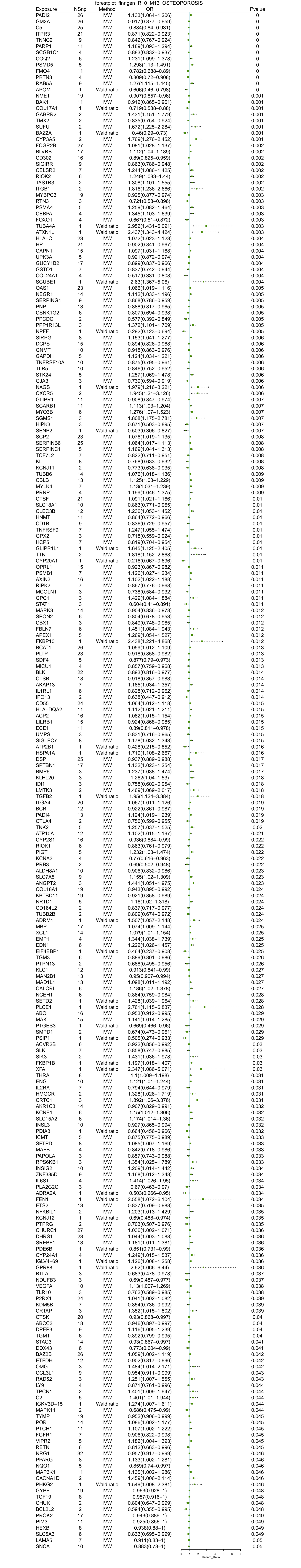


forestplot_finggen_R10_DRUGADVERS_OSTEOPO					
Exposure	NSnp	Method	OR		Pvalue
PSMD13	6	IVW	2.022(1.38–2.964)		0
CDC42	19	IVW	1.818(1.308–2.526)		0
FCRL3	24	IVW	1.524(1.197–1.941)		0.001
EIF2AK1	9	IVW	2.62(1.461–4.699)		0.001
FSCN1	8	IVW	2.557(1.45–4.507)		0.001
SLC16A7	7	IVW	3.919(1.631–9.416)		0.002
POLL	4	IVW	0.086(0.018–0.418)		0.002
TPK1	15	IVW	1.744(1.209–2.517)		0.003
NMB	10	IVW	0.461(0.275–0.773)		0.003
MTOR	4	IVW	0.362(0.187–0.7)		0.003
KLHL7	8	IVW	0.327(0.157–0.678)		0.003
INSL3	10	IVW	0.597(0.422–0.844)		0.003
NUCB1	14	IVW	0.673(0.514–0.882)		0.004
FPR1	19	IVW	1.651(1.169–2.333)		0.004
LNPEP	9	IVW	1.958(1.237–3.097)		0.004
NCSTN	21	IVW	1.562(1.141–2.139)		0.005
PRKD1	12	IVW	0.513(0.322–0.815)		0.005
GCH1	13	IVW	0.555(0.368–0.837)		0.005
DDR1	14	IVW	1.652(1.161–2.35)		0.005
MMP24	3	IVW	3.537(1.472–8.496)		0.005
IPO13	2	IVW	0.078(0.013–0.496)		0.005
C1QTNF6	12	IVW	1.769(1.18–2.651)		0.006
PTPN12	18	IVW	1.565(1.134–2.159)		0.006
WNT5B	6	IVW	2.335(1.28–4.26)		0.006
C6orf120	11	IVW	2.232(1.264–3.942)		0.006
ARNT	7	IVW	2.544(1.304–4.964)		0.006
SLC33A1	4	IVW	2.555(1.317–4.958)		0.006
PDCD1	6	IVW	0.507(0.314–0.821)		0.006
IL6	4	IVW	0.135(0.033–0.56)		0.006
GADD45A	3	IVW	0.128(0.029–0.558)		0.006
RBL2	25	IVW	1.62(1.142–2.298)		0.007
CD180	3	IVW	0.297(0.123–0.72)		0.007
ERCC5	7	IVW	2.568(1.275–5.172)		0.008
COL15A1	1	Wald ratio	0.08(0.012–0.523)		0.008
NTN4	1	Wald ratio	0.021(0.001–0.358)		0.008
PSORS1C3	15	IVW	1.241(1.056–1.458)		0.009
LY75	20	IVW	1.538(1.113–2.126)		0.009
FASLG	4	IVW	3.853(1.396–10.632)		0.009
MLH1	7	IVW	0.594(0.4–0.883)		0.01
GFPT1	21	IVW	0.666(0.486–0.911)		0.011
MICA	14	IVW	1.21(1.044–1.402)		0.011
TFRC	7	IVW	0.523(0.317–0.861)		0.011
PLEKHJ1	2	IVW	2.285(1.212–4.309)		0.011
IGLV3–27	3	IVW	0.523(0.318–0.861)		0.011
SPTLC3	5	IVW	4.53(1.406–14.592)		0.011
SOCS1	2	IVW	0.074(0.01–0.556)		0.011
TRPM6	15	IVW	0.601(0.404–0.895)		0.012
GNS	6	IVW	0.434(0.226–0.832)		0.012
SMC3	1	Wald ratio	0.152(0.035–0.658)		0.012
FKBP4	1	Wald ratio	0.036(0.003–0.487)		0.012
CD28	3	IVW	4.527(1.39–14.74)		0.012
RNASET2	22	IVW	0.765(0.62–0.944)		0.013
CLCN1	9	IVW	1.794(1.131–2.846)		0.013
SLC7A7	10	IVW	0.566(0.361–0.889)		0.013
FBP1	8	IVW	2.089(1.171–3.725)		0.013
PSPH	3	IVW	0.37(0.169–0.808)		0.013
HDC	1	Wald ratio	0.008(0–0.364)		0.013
DEAF1	9	IVW	0.525(0.314–0.878)		0.014
PLBD2	5	IVW	0.339(0.143–0.803)		0.014
THRA	8	IVW	1.704(1.11–2.614)		0.015
POU5F1	8	IVW	1.302(1.053–1.609)		0.015
IRAK3	9	IVW	0.549(0.339–0.891)		0.015
APH1A	2	IVW	0.172(0.042–0.706)		0.015
KDM2A	2	IVW	0.062(0.007–0.583)		0.015
ZDHHC7	19	IVW	1.549(1.084–2.213)		0.016
MUC1	8	IVW	3.092(1.23–7.77)		0.016
PCOLCE	1	Wald ratio	0.066(0.007–0.606)		0.016
CDH2	18	IVW	1.522(1.079–2.146)		0.017
TRAF3IP2	9	IVW	1.804(1.113–2.926)		0.017
NR1D1	5	IVW	2.174(1.147–4.121)		0.017
CHST8	2	IVW	3.754(1.264–11.152)		0.017
PICK1	24	IVW	1.435(1.065–1.935)		0.018
RALBP1	19	IVW	0.686(0.502–0.937)		0.018
VCL	12	IVW	1.645(1.09–2.483)		0.018
PPARG	8	IVW	0.518(0.3–0.895)		0.018
RXFP2	5	IVW	0.432(0.216–0.864)		0.018
CRTAP	3	IVW	4.708(1.297–17.084)		0.018
BCL2	3	IVW	0.149(0.031–0.723)		0.018
CD22	3	IVW	3.219(1.208–8.576)		0.019
BRAF	1	Wald ratio	0.061(0.006–0.632)		0.019
NFKBIA	8	IVW	0.566(0.351–0.913)		0.02
KBTBD7	3	IVW	2.578(1.162–5.718)		0.02
CA4	2	IVW	0.362(0.153–0.854)		0.02
GHRL	4	IVW	0.497(0.276–0.898)		0.02
GREM2	3	IVW	3.418(1.21–9.654)		0.02
MMP14	3	IVW	0.162(0.035–0.755)		0.02
HPN	1	Wald ratio	0.023(0.001–0.546)		0.02
TBXAS1	16	IVW	0.633(0.428–0.935)		0.021
HCG22	9	IVW	1.435(1.055–1.951)		0.021
NAPSA	4	IVW	0.447(0.226–0.884)		0.021
BTD	3	IVW	0.135(0.024–0.741)		0.021
ICAM1	4	IVW	3.288(1.187–9.109)		0.022
CR2	3	IVW	0.166(0.036–0.771)		0.022
PMEL	2	IVW	6.101(1.295–28.735)		0.022
HLA–G	16	IVW	1.42(1.05–1.921)		0.023
SGSH	5	IVW	0.607(0.395–0.933)		0.023
TMX2	2	IVW	0.557(0.337–0.922)		0.023
UGDH	22	IVW	0.759(0.598–0.965)		0.024
CD9	20	IVW	0.662(0.463–0.946)		0.024
IL18	4	IVW	0.486(0.26–0.908)		0.024
VPREB1	3	IVW	4.029(1.198–13.548)		0.024
NME1	19	IVW	1.381(1.042–1.832)		0.025
GNPMB	20	IVW	1.623(1.062–2.482)		0.025
PLD1	6	IVW	2.201(1.106–4.381)		0.025
GYPA	1	Wald ratio	3.569(1.174–10.844)		0.025
GPR142	1	Wald ratio	0.011(0–0.566)		0.025
TCF19	8	IVW	0.771(0.614–0.97)		0.026
RTN4	10	IVW	1.719(1.066–2.771)		0.026
ATF3	3	IVW	0.211(0.053–0.834)		0.026
HCP5	7	IVW	0.464(0.236–0.912)		0.026
CD33	10	IVW	1.705(1.064–2.734)		0.027
IGKV2D–29	1	Wald ratio	4.972(1.201–20.581)		0.027
CHIT1	4	IVW	0.36(0.146–0.889)		0.027
IGKV2D–40	1	Wald ratio	3.042(1.136–8.15)		0.027
PROC	3	IVW	2.785(1.116–6.947)		0.028
IGKV3–11	1	Wald ratio	8.239(1.256–54.052)		0.028
LPAR1	32	IVW	0.799(0.653–0.977)		0.029
TUBB4A	5	IVW	1.282(1.026–1.603)		0.029
RPS19	1	Wald ratio	0.291(0.096–0.879)		0.029
KLHL33	1	Wald ratio	0.049(0.003–0.729)		0.029
HKDC1	20	IVW	1.613(1.047–2.484)		0.03
GPR83	9	IVW	1.779(1.059–2.99)		0.03
MASP2	1	Wald ratio	0.111(0.015–0.811)		0.03
TARDBP	1	Wald ratio	0.015(0–0.664)		0.03
PGD	2	IVW	4.847(1.156–20.32)		0.031
CBLB	13	IVW	1.588(1.038–2.429)		0.033
TXN	14	IVW	0.6(0.375–0.959)		0.033
KCNMA1	18	IVW	0.695(0.496–0.973)		0.034
IL31RA	1	Wald ratio	2.554(1.074–6.072)		0.034
SPINT1	5	IVW	0.355(0.136–0.925)		0.034
GSS	4	IVW	0.101(0.012–0.837)		0.034
P2RX4	16	IVW	1.556(1.031–2.348)		0.035
TRBV7–1	17	IVW	1.179(1.012–1.373)		0.035
NUP210	5	IVW	0.149(0.025–0.875)		0.035
CD177	11	IVW	1.657(1.037–2.646)		0.035
GALK1	8	IVW	0.478(0.241–0.949)		0.035
KLHL17	2	IVW	2.766(1.067–7.173)		0.036
CHRNA2	2	IVW	0.215(0.051–0.907)		0.036
BCAM	1	Wald ratio	0.084(0.008–0.852)		0.036
PIK3CD	1	Wald ratio	0.071(0.006–0.836)		0.036
PTPRN	4	IVW	0.509(0.27–0.96)		0.037
DGAT1	11	IVW	0.74(0.558–0.982)		0.037
DEPTOR	5	IVW	0.457(0.219–0.954)		0.037
GRK7	1	Wald ratio	0.04(0.002–0.818)		0.037
NEK10	1	Wald ratio	0.053(0.003–0.839)		0.037
SLC22A4	19	IVW	0.678(0.469–0.98)		0.038
BCAT1	26	IVW	1.303(1.013–1.677)		0.039
HLA–C	23	IVW	0.814(0.669–0.99)		0.039
ITGA4	20	IVW	1.326(1.015–1.732)		0.039
LGR6	11	IVW	0.587(0.354–0.974)		0.039
LILRB5	5	IVW	0.319(0.108–0.941)		0.039
ERAP2	33	IVW	1.175(1.008–1.37)		0.04
DPEP2	8	IVW	0.537(0.296–0.973)		0.04
HDAC4	9	IVW	1.625(1.022–2.585)		0.04
SFTPB	2	IVW	3.796(1.064–13.54)		0.04
CRMP1	3	IVW	0.195(0.041–0.925)		0.04
RIPK3	6	IVW	0.36(0.136–0.957)		0.04
ANGPT2	3	IVW	5.115(1.077–24.282)		0.04
BAX	9	IVW	0.559(0.319–0.978)		0.041
BRD2	6	IVW	0.475(0.233–0.969)		0.041
KCNJ10	1	Wald ratio	0.324(0.11–0.953)		0.041
FCGR2A	3	IVW	4.479(1.066–18.821)		0.041
GPC2	1	Wald ratio	0.004(0–0.794)		0.041
CNR2	3	IVW	2.862(1.046–7.831)		0.041
CLEC10A	7	IVW	1.636(1.017–2.631)		0.043
INHBB	8	IVW	1.757(1.019–3.03)		0.043
GSTZ1	17	IVW	1.565(1.012–2.421)		0.044
NCAM1	6	IVW	2.417(1.023–5.71)		0.044
PINK1	2	IVW	0.498(0.252–0.982)		0.044
IDH2	8	IVW	0.655(0.434–0.988)		0.044
HSF1	1	Wald ratio	6.377(1.05–38.722)		0.044
S100A12	18	IVW	0.797(0.638–0.995)		0.045
H6PD	10	IVW	1.394(1.007–1.93)		0.045
CCR9	2	IVW	3.586(1.031–12.473)		0.045
IL18RAP	30	IVW	0.821(0.676–0.996)		0.046
HPSE	15	IVW	1.544(1.007–2.367)		0.046
MAT2A	7	IVW	1.567(1.008–2.437)		0.046
KIF11	1	Wald ratio	8.246(1.038–65.533)		0.046
HLCS	12	IVW	1.496(1.005–2.228)		0.047
F2R	13	IVW	0.6(0.362–0.994)		0.047
NUP50	9	IVW	0.593(0.354–0.993)		0.047
NUDT1	11	IVW	1.666(1.008–2.753)		0.047
ITGA9	10	IVW	0.535(0.289–0.991)		0.047
MGA	3	IVW	2.609(1.011–6.733)		0.047
APOD	3	IVW	2.643(1.012–6.9)		0.047
IFIT2	2	IVW	0.158(0.026–0.973)		0.047
DAPK1	27	IVW	1.271(1.002–1.611)		0.048
HAVCR2	10	IVW	0.505(0.257–0.993)		0.048
PSMD10P1	1	Wald ratio	3.642(1.011–13.124)		0.048
SRI	3	IVW	0.394(0.156–0.995)		0.049
GZMA	6	IVW	2.892(1.003–8.344)		0.049
IMPG2	1	Wald ratio	0.447(0.201–0.996)		0.049
KCNC3	1	Wald ratio	5.739(1.009–32.629)		0.049
TNFSF4	9	IVW	0.556(0.309–1)		0.05



forestplot_fingern_R10_M13_SPINSTENOSIS					
Exposure	NSnp	Method	OR		Pvalue
AKR1C2	16	IWW	0.931(0.897-0.967)		0
GFPT1	21	IWW	1.184(1.132-1.239)		0
MAP3K11	18	IWW	1.104(1.053-1.157)		0
PIK3C2A	18	IWW	1.096(1.053-1.141)		0
MEG3	12	IWW	0.854(0.794-0.918)		0
TRIM24	18	IWW	1.1(1.043-1.161)		0
TCF19	8	IWW	0.89(0.865-0.915)		0
CDC42	19	IWW	1.1(1.043-1.159)		0
APEH	9	IWW	0.862(0.814-0.913)		0
ABCC1	7	IWW	1.156(1.066-1.254)		0
STK36	3	IWW	0.758(0.649-0.885)		0
MUC4	9	IWW	0.862(0.797-0.932)		0
DLK1	3	IWW	0.664(0.579-0.761)		0
BMP6	3	IWW	1.505(1.345-1.684)		0
CCNE1	3	IWW	1.368(1.169-1.602)		0
BCAR3	2	IWW	1.309(1.136-1.509)		0
NDUFAF3	1	Wald ratio	0.725(0.61-0.862)		0
CD79B	2	IWW	0.742(0.632-0.872)		0
GPX1	1	Wald ratio	1.622(1.343-1.958)		0
STK25	2	IWW	0.749(0.638-0.879)		0
NFKBIL1	2	IWW	1.431(1.178-1.738)		0
DFFB	1	Wald ratio	0.626(0.488-0.803)		0
BPTF	1	Wald ratio	1.869(1.4-2.495)		0
TNFAIP1	1	Wald ratio	2.537(1.569-4.149)		0
TET2	2	IWW	1.881(1.359-2.583)		0
KAT5	1	Wald ratio	0.428(0.294-0.622)		0
PI4KB	1	Wald ratio	3.13(1.904-5.147)		0
AAK1	1	Wald ratio	7.347(4.384-12.313)		0
CYP27B1	1	Wald ratio	0.183(0.103-0.324)		0.001
CEP68	7	IWW	1.116(1.044-1.193)		0.001
PDE8B	7	IWW	0.885(0.825-0.95)		0.001
DAPK2	8	IWW	1.186(1.075-1.308)		0.001
FMO5	6	IWW	0.909(0.86-0.962)		0.001
LTA	6	IWW	1.174(1.064-1.295)		0.001
SMG1	2	IWW	0.814(0.721-0.919)		0.001
PRKAG3	1	Wald ratio	1.315(1.118-1.548)		0.001
UBA6	3	IWW	1.175(1.069-1.291)		0.001
KLHL22	1	Wald ratio	0.688(0.551-0.858)		0.001
CSNK1A1L	1	Wald ratio	0.673(0.536-0.847)		0.001
ATP2A1	2	IWW	0.708(0.574-0.873)		0.001
APOM	1	Wald ratio	0.738(0.615-0.885)		0.001
ASIC3	1	Wald ratio	1.206(1.075-1.354)		0.001
CPXM1	3	IWW	0.682(0.538-0.864)		0.001
NEK4	1	Wald ratio	0.576(0.415-0.799)		0.001
EHMT2	2	IWW	1.421(1.16-1.742)		0.001
CDK4	1	Wald ratio	0.657(0.515-0.837)		0.001
GH1	1	Wald ratio	0.656(0.507-0.847)		0.001
HLA-DQB1	15	IWW	0.906(0.85-0.965)		0.002
NCSTN	21	IWW	0.945(0.912-0.979)		0.002
KHK	25	IWW	0.925(0.88-0.972)		0.002
PLIN2	14	IWW	0.939(0.903-0.977)		0.002
ADORA2B	11	IWW	0.916(0.866-0.969)		0.002
TM2D1	11	IWW	0.919(0.872-0.97)		0.002
CCDC3	10	IWW	1.08(1.029-1.134)		0.002
TXNRD1	3	IWW	1.473(1.155-1.879)		0.002
DDIT3	2	IWW	1.212(1.071-1.371)		0.002
GATA2	2	IWW	1.315(1.109-1.559)		0.002
OXSR1	7	IWW	0.798(0.69-0.923)		0.002
GAPVD1	1	Wald ratio	1.672(1.207-2.315)		0.002
CGREF1	1	Wald ratio	0.611(0.449-0.831)		0.002
SH2B1	1	Wald ratio	1.734(1.214-2.475)		0.002
EMILIN1	1	Wald ratio	2.331(1.353-4.017)		0.002
FCRL3	24	IWW	0.95(0.92-0.982)		0.003
F2RL1	22	IWW	1.057(1.019-1.098)		0.003
BST1	21	IWW	1.068(1.023-1.115)		0.003
CYP2S1	16	IWW	1.057(1.019-1.098)		0.003
KDM6B	5	IWW	0.793(0.679-0.925)		0.003
BTD	3	IWW	1.4(1.123-1.745)		0.003
MMP23A	3	IWW	0.919(0.869-0.973)		0.003
CEACAM1	1	Wald ratio	0.522(0.341-0.797)		0.003
NUCB2	7	IWW	1.067(1.021-1.114)		0.004
GNA11	5	IWW	0.896(0.832-0.965)		0.004
PRCP	9	IWW	1.1(1.03-1.174)		0.004
MAST3	7	IWW	1.146(1.046-1.257)		0.004
TUBB2B	2	IWW	0.841(0.747-0.947)		0.004
CEL	1	Wald ratio	1.246(1.075-1.444)		0.004
ERP29	2	IWW	0.814(0.708-0.935)		0.004
SIK3	2	IWW	1.242(1.073-1.439)		0.004
SENP8	1	Wald ratio	2.467(1.327-4.586)		0.004
RNASET2	22	IWW	0.958(0.93-0.987)		0.005
SELL	22	IWW	1.045(1.014-1.076)		0.005
OLFM4	17	IWW	0.95(0.917-0.984)		0.005
SCAP	14	IWW	0.923(0.872-0.976)		0.005
TRPV5	8	IWW	1.046(1.013-1.079)		0.005
TNKS2	2	IWW	1.21(1.06-1.383)		0.005
CDK11B	3	IWW	0.934(0.891-0.98)		0.005
RPSA	5	IWW	1.185(1.052-1.335)		0.005
GART	1	Wald ratio	0.782(0.66-0.927)		0.005
CILP	3	IWW	0.795(0.677-0.933)		0.005
POLL	4	IWW	1.314(1.084-1.593)		0.005
KLHL18	2	IWW	1.359(1.097-1.684)		0.005
KLHL21	2	IWW	0.815(0.705-0.941)		0.005
IL34	1	Wald ratio	0.676(0.514-0.889)		0.005
LTBR2	1	Wald ratio	0.499(0.306-0.812)		0.005
TSC2	1	Wald ratio	0.568(0.383-0.842)		0.005
LGALS8	7	IWW	1.083(1.023-1.146)		0.006
FNTB	16	IWW	0.936(0.893-0.981)		0.006
IGLV4-60	13	IWW	0.965(0.942-0.99)		0.006
MINK1	15	IWW	1.08(1.022-1.14)		0.006
TNFRSF14	7	IWW	1.071(1.02-1.124)		0.006
CCR6	5	IWW	1.129(1.036-1.23)		0.006
KIR2DL1	4	IWW	1.11(1.03-1.196)		0.006
ESR1	3	IWW	0.823(0.716-0.946)		0.006
MTF1	2	IWW	0.762(0.627-0.927)		0.006
PRKAB1	15	IWW	0.954(0.922-0.987)		0.007
TGFB2	8	IWW	1.127(1.033-1.229)		0.007
NDFIP1	11	IWW	0.905(0.841-0.973)		0.007
PSMF1	5	IWW	1.156(1.04-1.285)		0.007
CTNNA2	2	IWW	1.169(1.044-1.31)		0.007
GNL3	2	IWW	0.791(0.667-0.937)		0.007
SNAP23	3	IWW	1.174(1.045-1.319)		0.007
SELP	4	IWW	1.213(1.055-1.394)		0.007
PTPN11	1	Wald ratio	1.2(1.052-1.369)		0.007
CTDSP1	2	IWW	1.398(1.097-1.783)		0.007
ADCY6	1	Wald ratio	1.714(1.156-2.54)		0.007
CYP4V2	24	IWW	0.952(0.918-0.987)		0.008
PRMT5	9	IWW	0.935(0.89-0.982)		0.008
CD200R1	15	IWW	1.078(1.02-1.139)		0.008
LYG1	8	IWW	1.06(1.015-1.108)		0.008
GPR141	7	IWW	1.124(1.031-1.225)		0.008
CCHCR1	4	IWW	0.923(0.87-0.979)		0.008
EVI2B	1	Wald ratio	0.78(0.649-0.938)		0.008
PI4KA	1	Wald ratio	0.735(0.586-0.922)		0.008
PRKAA1	2	IWW	1.374(1.086-1.737)		0.008
PIN1	1	Wald ratio	1.42(1.095-1.843)		0.008
SLC22A14	2	IWW	1.479(1.106-1.976)		0.008
FARP2	10	IWW	0.908(0.844-0.976)		0.009
SLC15A3	8	IWW	1.117(1.029-1.213)		0.009
VPREB1	3	IWW	0.819(0.706-0.951)		0.009
TOP2B	1	Wald ratio	0.798(0.674-0.945)		0.009
MAPK11	2	IWW	0.73(0.576-0.925)		0.009
THBS4	1	Wald ratio	0.588(0.394-0.878)		0.009
PSMC1	1	Wald ratio	0.747(0.601-0.929)		0.009
C9orf72	15	IWW	1.065(1.015-1.118)		0.01
OVGP1	15	IWW	0.94(0.896-0.985)		0.01
XBP1	17	IWW	0.932(0.884-0.983)		0.01
TIGIT	8	IWW	0.916(0.856-0.979)		0.01
PRKG2	4	IWW	0.861(0.768-0.965)		0.01
SRSF2	1	Wald ratio	1.577(1.115-2.231)		0.01
HSPA1A	1	Wald ratio	1.451(1.092-1.929)		0.01
GPR160	12	IWW	0.958(0.928-0.99)		0.011
TBK1	8	IWW	0.908(0.844-0.978)		0.011
SLC14A1	13	IWW	0.921(0.863-0.982)		0.011
KL	8	IWW	0.89(0.813-0.974)		0.011
EZH2	1	Wald ratio	0.543(0.34-0.868)		0.011
PSMD9	4	IWW	0.883(0.801-0.972)		0.011
HCAR1	5	IWW	0.89(0.814-0.973)		0.011
SLC33A1	4	IWW	1.128(1.028-1.239)		0.011
FGFRL1	7	IWW	0.904(0.836-0.977)		0.011
MEN1	2	IWW	1.58(1.11-2.249)		0.011
DAG1	1	Wald ratio	0.719(0.558-0.926)		0.011
CCNK	1	Wald ratio	0.7(0.532-0.922)		0.011
RARB	1	Wald ratio	1.555(1.107-2.183)		0.011
EPHB1	12	IWW	0.917(0.857-0.982)		0.012
ACAT2	7	IWW	0.891(0.814-0.975)		0.012
MKNK2	6	IWW	1.088(1.019-1.162)		0.012
SLC6A9	1	Wald ratio	1.338(1.065-1.681)		0.012
SCN5A	3	IWW	1.265(1.054-1.519)		0.012
BAP1	1	Wald ratio	0.588(0.388-0.891)		0.012
MRC2	1	Wald ratio	1.866(1.15-3.026)		0.012
VCP	8	IWW	0.922(0.865-0.983)		0.013
PDE8A	5	IWW	1.321(1.061-1.645)		0.013
WNT7A	4	IWW	0.833(0.721-0.962)		0.013
FGFBP3	1	Wald ratio	1.67(1.112-2.507)		0.013
XYLT1	27	IWW	0.951(0.913-0.99)		0.014
CRY1	4	IWW	1.252(1.047-1.497)		0.014
TMIGD2	2	IWW	0.845(0.74-0.967)		0.014
DRAXIN	8	IWW	1.066(1.013-1.123)		0.015
PLA2G6	5	IWW	0.875(0.786-0.974)		0.015
PRF1	2	IWW	0.836(0.724-0.965)		0.015
PTPRS	2	IWW	1.609(1.096-2.363)		0.015
MAPT	1	Wald ratio	1.537(1.087-2.173)		0.015
ENHO	1	Wald ratio	0.59(0.387-0.902)		0.015
AOAH	24	IWW	1.041(1.007-1.076)		0.016
DHR9	14	IWW	0.944(0.901-0.989)		0.016
EPHB3	6	IWW	1.105(1.019-1.198)		0.016
ADO	6	IWW	0.891(0.811-0.979)		0.016
EIF2AK3	1	Wald ratio	0.743(0.583-0.946)		0.016
TANC1	1	Wald ratio	0.535(0.322-0.89)		0.016
KDM5A	13	IWW	0.939(0.892-0.989)		0.017
HTT	2	IWW	0.678(0.493-0.932)		0.017
REV3L	2	IWW	1.283(1.045-1.575)		0.017
EIF3A	1	Wald ratio	0.764(0.612-0.953)		0.017
LIMK2	1	Wald ratio	0.646(0.451-0.925)		0.017
PAK6	1	Wald ratio	0.583(0.375-0.907)		0.017
MCAM	1	Wald ratio	0.509(0.292-0.886)		0.017
BTN3A1	15	IWW	0.934(0.882-0.988)		0.018
DHCR24	7	IWW	1.099(1.017-1.187)		0.018
CD164L2	2	IWW	0.887(0.803-0.98)		0.018
CAMK1	5	IWW	1.165(1.026-1.323)		0.018
FZD8	1	Wald ratio	0.665(0.473-0.934)		0.018
FCAR	6	IWW	0.943(0.898-0.991)		0.019
HTR3A	3	IWW	0.814(0.686-0.967)		0.019
PLCG1	6	IWW	1.303(1.044-1.625)		0.019
FKBP4	1	Wald ratio	0.667(0.476-0.935)		0.019
CBFB	1	Wald ratio	1.423(1.061-1.91)		0.019
UBE2D1	22	IWW	0.968(0.941-0.995)		0.02
FLCN	12	IWW	0.919(0.856-0.987)		0.02
HLA-B	12	IWW	0.938(0.889-0.99)		0.02
NDUFS2	7	IWW	0.895(0.815-0.983)		0.02
BMP2	2	IWW	1.13(1.019-1.254)		0

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Exposure	NSnp	Method	OR		Pvalue
SPTBN1	17	IVW	1.322(1.133–1.542)		0
KAT2B	15	IVW	0.62(0.493–0.78)		0
CD55	24	IVW	1.186(1.07–1.314)		0.001
TUBB6	14	IVW	1.201(1.074–1.344)		0.001
NR2F6	19	IVW	0.801(0.705–0.909)		0.001
JUN	9	IVW	0.696(0.557–0.87)		0.001
GHRL	4	IVW	0.658(0.514–0.842)		0.001
CBX1	3	IVW	0.638(0.488–0.834)		0.001
SMO	3	IVW	3.156(1.602–6.215)		0.001
KDM4A	1	Wald ratio	9.733(2.527–37.478)		0.001
SIGLEC5	23	IVW	1.187(1.064–1.324)		0.002
NEGR1	14	IVW	1.287(1.096–1.511)		0.002
NDFIP1	11	IVW	0.686(0.543–0.867)		0.002
DYRK4	10	IVW	1.52(1.169–1.977)		0.002
SHISA2	5	IVW	0.593(0.424–0.831)		0.002
GJA3	3	IVW	0.488(0.309–0.773)		0.002
PIK3R1	6	IVW	1.862(1.253–2.766)		0.002
EIF3A	1	Wald ratio	0.33(0.163–0.67)		0.002
GSTT1	21	IVW	0.88(0.809–0.956)		0.003
GSTZ1	17	IVW	1.298(1.091–1.544)		0.003
CLEC10A	7	IVW	1.346(1.103–1.643)		0.003
CD1E	9	IVW	0.711(0.57–0.888)		0.003
SLC12A1	22	IVW	0.903(0.843–0.967)		0.004
IL17RA	6	IVW	1.493(1.133–1.969)		0.004
FN1	7	IVW	1.744(1.198–2.539)		0.004
CTSA	7	IVW	1.595(1.16–2.193)		0.004
ATP2A3	8	IVW	1.672(1.183–2.364)		0.004
P2RX1	24	IVW	1.126(1.036–1.224)		0.005
CELSR2	7	IVW	1.571(1.146–2.153)		0.005
KLHL7	8	IVW	0.662(0.497–0.882)		0.005
INSL3	10	IVW	0.812(0.702–0.939)		0.005
HSPH1	5	IVW	1.567(1.144–2.146)		0.005
SENP6	20	IVW	0.818(0.708–0.944)		0.006
RB1	2	IVW	1.85(1.192–2.87)		0.006
MVD	6	IVW	1.521(1.126–2.055)		0.006
PSMD11	1	Wald ratio	0.179(0.052–0.618)		0.006
ATXN1L	1	Wald ratio	5.723(1.655–19.79)		0.006
PSMD5	5	IVW	1.49(1.116–1.989)		0.007
PICALM	10	IVW	0.622(0.441–0.877)		0.007
CD200R1	15	IVW	0.79(0.664–0.941)		0.008
TPP1	12	IVW	1.262(1.064–1.497)		0.008
ABO	16	IVW	0.883(0.805–0.968)		0.008
CLOCK	6	IVW	1.395(1.092–1.781)		0.008
NOG	2	IVW	0.511(0.312–0.837)		0.008
IGLV4–69	1	Wald ratio	1.36(1.085–1.705)		0.008
PADI2	26	IVW	1.179(1.042–1.334)		0.009
IGLV3–25	4	IVW	1.265(1.061–1.508)		0.009
TGFB2	1	Wald ratio	4.409(1.441–13.492)		0.009
ERCC4	2	IVW	0.211(0.066–0.672)		0.009
KLF4	4	IVW	0.322(0.138–0.755)		0.009
ITIH4	15	IVW	0.851(0.752–0.962)		0.01
PLEK	16	IVW	0.811(0.692–0.951)		0.01
KLC1	12	IVW	0.802(0.678–0.95)		0.01
RIPK2	7	IVW	0.737(0.585–0.928)		0.01
BTN3A3	9	IVW	1.682(1.133–2.499)		0.01
HCP5	7	IVW	0.689(0.518–0.915)		0.01
NME1	19	IVW	0.856(0.76–0.965)		0.011
ETS2	13	IVW	0.712(0.548–0.926)		0.011
HSPA1A	1	Wald ratio	3.288(1.31–8.253)		0.011
RAMP3	6	IVW	1.348(1.068–1.703)		0.012
IL15	10	IVW	0.682(0.505–0.921)		0.012
OAS1	23	IVW	1.129(1.025–1.243)		0.013
KL	8	IVW	0.667(0.485–0.917)		0.013
IGLV3–16	3	IVW	1.249(1.048–1.488)		0.013
CDH2	18	IVW	1.197(1.037–1.382)		0.014
TNFSF4	9	IVW	0.787(0.651–0.952)		0.014
MAN2B1	13	IVW	0.881(0.796–0.975)		0.014
CHUK	2	IVW	0.461(0.249–0.852)		0.014
RASGRP1	4	IVW	1.745(1.121–2.718)		0.014
CYP1B1	17	IVW	1.179(1.032–1.347)		0.015
PSMB3	8	IVW	0.742(0.585–0.943)		0.015
IPO7	1	Wald ratio	2.211(1.163–4.203)		0.015
CHEK2	2	IVW	0.36(0.158–0.819)		0.015
AKR1C4	4	IVW	0.451(0.237–0.858)		0.015
HLA–C	23	IVW	1.108(1.019–1.203)		0.016
SCD5	24	IVW	1.13(1.023–1.248)		0.016
C5	25	IVW	0.852(0.749–0.971)		0.016
ABCC4	16	IVW	0.834(0.719–0.966)		0.016
GPR65	12	IVW	0.764(0.614–0.951)		0.016
GUCY2C	8	IVW	0.71(0.537–0.938)		0.016
ENPP1	2	IVW	0.289(0.106–0.79)		0.016
BAP1	1	Wald ratio	0.191(0.05–0.734)		0.016
SRD5A3	17	IVW	1.23(1.038–1.457)		0.017
MYLK4	7	IVW	1.185(1.03–1.363)		0.017
CLCC1	4	IVW	1.967(1.13–3.425)		0.017
NAGS	1	Wald ratio	3.453(1.243–9.589)		0.017
EPM2A	11	IVW	1.372(1.056–1.783)		0.018
ABCB4	6	IVW	0.711(0.536–0.942)		0.018
IGLV3–12	8	IVW	0.918(0.854–0.986)		0.019
BACE2	6	IVW	0.738(0.571–0.952)		0.019
ENPP5	2	IVW	1.949(1.115–3.407)		0.019
TNK2	5	IVW	1.618(1.081–2.423)		0.019
HSPE1	1	Wald ratio	1.831(1.104–3.039)		0.019
TSSK4	2	IVW	0.302(0.112–0.819)		0.019
CYB5D2	3	IVW	0.756(0.596–0.958)		0.02
CANX	5	IVW	0.749(0.586–0.956)		0.02
ATP2C1	3	IVW	0.531(0.311–0.906)		0.02
ANGPT4	2	IVW	0.243(0.074–0.797)		0.02
GPR75	1	Wald ratio	0.318(0.121–0.838)		0.02
ERAP2	33	IVW	0.921(0.859–0.988)		0.021
KBTBD11	19	IVW	0.84(0.723–0.974)		0.021
ITM2B	9	IVW	0.749(0.585–0.958)		0.021
IL27	4	IVW	1.54(1.066–2.224)		0.021
COL15A1	1	Wald ratio	0.344(0.139–0.851)		0.021
IGHV3–23	1	Wald ratio	0.878(0.786–0.981)		0.021
CRTC1	3	IVW	3.344(1.195–9.357)		0.021
RTKN2	18	IVW	1.206(1.028–1.416)		0.022
UMPS	3	IVW	0.68(0.489–0.946)		0.022
IL2RA	7	IVW	0.523(0.3–0.912)		0.022
PPM1A	1	Wald ratio	4.219(1.23–14.474)		0.022
MTHFR	21	IVW	0.9(0.822–0.986)		0.023
SAMD3	21	IVW	1.163(1.022–1.325)		0.023
MYT1L	3	IVW	1.55(1.062–2.262)		0.023
EDAR	5	IVW	1.784(1.085–2.935)		0.023
STAB2	1	Wald ratio	0.154(0.03–0.776)		0.023
CD69	1	Wald ratio	0.192(0.046–0.806)		0.024
BRPF1	2	IVW	2.598(1.136–5.939)		0.024
KDM3A	1	Wald ratio	0.449(0.223–0.901)		0.024
KYNU	12	IVW	1.198(1.022–1.403)		0.025
TCF7L2	7	IVW	0.726(0.548–0.96)		0.025
TLR1	4	IVW	0.752(0.586–0.965)		0.025
HES1	2	IVW	0.51(0.283–0.919)		0.025
APOM	1	Wald ratio	0.508(0.28–0.919)		0.025
LIF	1	Wald ratio	9.303(1.329–65.137)		0.025
AKT1	7	IVW	1.242(1.027–1.502)		0.026
DPP9	7	IVW	0.769(0.611–0.969)		0.026
S1PR2	3	IVW	0.647(0.44–0.95)		0.026
CDK5R1	26	IVW	0.885(0.794–0.986)		0.027
MSR1	21	IVW	0.85(0.737–0.981)		0.027
UQCR10	4	IVW	0.415(0.19–0.906)		0.027
XRCC5	3	IVW	0.624(0.41–0.949)		0.027
XPC	3	IVW	1.675(1.06–2.648)		0.027
GPLD1	1	Wald ratio	0.401(0.179–0.9)		0.027
GPR142	1	Wald ratio	6.653(1.245–35.552)		0.027
LGALS3BP	8	IVW	0.688(0.492–0.96)		0.028
ANGPT2	3	IVW	2.091(1.082–4.041)		0.028
TNNC2	9	IVW	0.805(0.663–0.978)		0.029
ATP10A	12	IVW	1.211(1.019–1.439)		0.029
SLC47A1	15	IVW	1.249(1.023–1.527)		0.029
ACVR2B	6	IVW	0.843(0.722–0.983)		0.029
PIK3R3	8	IVW	1.285(1.025–1.609)		0.029
UGT2B17	12	IVW	1.223(1.021–1.466)		0.029
CCR2	9	IVW	0.748(0.577–0.971)		0.029
FBXL17	6	IVW	0.725(0.543–0.967)		0.029
VHL	3	IVW	1.856(1.064–3.237)		0.029
SLC39A14	1	Wald ratio	0.348(0.134–0.9)		0.029
GPX4	16	IVW	0.903(0.823–0.99)		0.03
S100A8	5	IVW	1.342(1.029–1.749)		0.03
MYO3B	6	IVW	1.606(1.047–2.463)		0.03
ATP2B1	1	Wald ratio	0.203(0.048–0.858)		0.03
HP	21	IVW	0.836(0.709–0.984)		0.031
SIGIRR	9	IVW	0.805(0.662–0.98)		0.031
NLRP1	14	IVW	0.828(0.698–0.983)		0.031
IGLV1–44	1	Wald ratio	0.707(0.516–0.969)		0.031
STAT6	22	IVW	1.163(1.013–1.335)		0.032
SOD1	2	IVW	1.669(1.046–2.663)		0.032
CRYZ	24	IVW	0.9(0.818–0.991)		0.033
CHRNB1	10	IVW	0.778(0.618–0.979)		0.033
IL20RB	1	Wald ratio	3.802(1.111–13.01)		0.033
ALDH5A1	14	IVW	0.847(0.725–0.988)		0.034
FGL2	14	IVW	0.728(0.543–0.976)		0.034
CTLA4	2	IVW	0.592(0.364–0.965)		0.035
SH2B1	1	Wald ratio	0.293(0.093–0.925)		0.036
SCT	1	Wald ratio	3.845(1.091–13.553)		0.036
CD1B	9	IVW	0.706(0.51–0.979)		0.037
RCE1	4	IVW	1.526(1.026–2.27)		0.037
CACNG6	5	IVW	0.659(0.446–0.965)		0.037
BHLHE40	6	IVW	0.586(0.354–0.969)		0.037
ABAT	21	IVW	0.85(0.729–0.991)		0.038
NDUFS2	7	IVW	1.359(1.018–1.816)		0.038
PRLR	5	IVW	1.444(1.021–2.043)		0.038
FKBP11	9	IVW	0.803(0.651–0.989)		0.039
GSTO1	7	IVW	0.768(0.596–0.989)		0.04
IGLV3–27	3	IVW	0.839(0.71–0.992)		0.04
CNTNAP3	1	Wald ratio	1.283(1.012–1.628)		0.04
EPHB4	24	IVW	1.124(1.005–1.257)		0.041
IL18R1	12	IVW	0.874(0.768–0.995)		0.041
IL21R	8	IVW	0.798(0.642–0.991)		0.041
PEPD	6	IVW	0.709(0.509–0.987)		0.041
CTNBL1	3	IVW	0.642(0.419–0.982)		0.041
CHEK1	2	IVW	0.388(0.157–0.964)		0.041
PDIA3	1	Wald ratio	0.444(0.203–0.97)		0.042
OMG	3	IVW	2.293(1.03–5.105)		0.042
PNMT	1	Wald ratio	0.332(0.114–0.96)		0.042
GPR88	1	Wald ratio	7.01(1.065–46.137)		0.043
IGLV1–40	1	Wald ratio	3.439(1.041–11.368)		0.043
NEK3	9	IVW	1.257(1.006–1.57)		0.044
POLI	19	IVW	1.164(1.003–1.351)		0.045
GNMT	10	IVW	0.88(0.776–0.997)		0.045
CD3E	4	IVW	0.643(0.417–0.991)		0.045
C3	3	IVW	0.586(0.347–0.988)		0.045
ADAMTS8	1	Wald ratio	2.893(1.024–8.174)		0.045
C1SD1	27	IVW	1.101(1.002–1.21)		0.046
KLHL30	9	IVW	1.243(1.004–1.538)		0.046
DNAH8	4	IVW	0.659(0.437–0.994)		0.046
SIK3	2	IVW	1.677(1.009–2.79)		0.046
NDUFV1	1	Wald ratio	3.718(1.023–1		

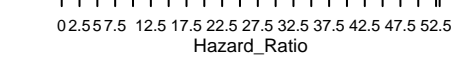
forestplot_finngen_R10_OSTPOPA				TFRAC		Pvalue
Exposure	NSnp	Method	OR			
SIRT1	14	IVW	0.532(0.38–0.747)	■		0
HCP5	7	IVW	0.322(0.177–0.587)	■		0
SOD1	2	IVW	6.198(2.538–15.138)	■	-----■	0
CDH2	18	IVW	1.677(1.238–2.271)	■		0.001
CAMKK2	22	IVW	0.615(0.461–0.822)	■		0.001
CD96	15	IVW	1.68(1.237–2.281)	■		0.001
NDFIP1	11	IVW	0.448(0.276–0.728)	■		0.001
ITPR1	12	IVW	0.464(0.29–0.742)	■		0.001
VHL	3	IVW	6.685(2.073–21.554)	■	-----■	0.001
LGALS3BP	8	IVW	0.291(0.142–0.596)	■		0.001
CSNK1G3	5	IVW	4.664(1.818–11.968)	■	-----■	0.001
PTPN13	2	IVW	0.108(0.027–0.426)	■		0.001
MAP2K4	2	IVW	0.271(0.127–0.577)	■		0.001
CLCF1	4	IVW	0.191(0.072–0.505)	■		0.001
HSP90AA1	6	IVW	0.427(0.247–0.74)	■		0.002
SLAMF7	2	IVW	3.748(1.632–8.61)	■	-----■	0.002
ABCA1	10	IVW	2.717(1.448–5.097)	■	-----■	0.002
IL6	4	IVW	6.204(1.938–19.861)	■	-----■	0.002
ELAVL1	1	Wald ratio	0.005(0–0.146)	■		0.002
STK32C	17	IVW	0.689(0.539–0.879)	■		0.003
SLC12A6	8	IVW	2.369(1.342–4.18)	■	-----■	0.003
FTH1	5	IVW	1.806(1.215–2.684)	■		0.003
SULT1A1	12	IVW	0.639(0.475–0.86)	■		0.003
RPSA	5	IVW	3.456(1.539–7.761)	■	-----■	0.003
EFNA4	1	Wald ratio	0.075(0.013–0.417)	■		0.003
OPRL1	15	IVW	1.462(1.13–1.89)	■		0.004
PDCD1LG2	7	IVW	1.917(1.231–2.985)	■		0.004
CTSD	8	IVW	0.469(0.281–0.782)	■		0.004
OPLAH	1	Wald ratio	0.031(0.003–0.329)	■		0.004
IL6ST	4	IVW	4.63(1.586–13.521)	■	-----■	0.005
PLCG1	6	IVW	4.639(1.607–13.393)	■	-----■	0.005
CDC42BPG	3	IVW	4.494(1.576–12.815)	■	-----■	0.005
TLR4	29	IVW	0.66(0.49–0.889)	■		0.006
CLCN6	7	IVW	0.341(0.158–0.734)	■		0.006
INHBB	8	IVW	1.98(1.208–3.245)	■		0.007
CD8B	1	Wald ratio	0.04(0.004–0.41)	■		0.007
PSMD7	2	IVW	0.098(0.018–0.522)	■		0.007
ABCA2	12	IVW	0.595(0.405–0.875)	■		0.008
MTF1	2	IVW	6.082(1.599–23.135)	■	-----■	0.008
NETO2	2	IVW	0.052(0.006–0.463)	■		0.008
AGA	27	IVW	1.337(1.074–1.665)	■		0.009
SULT1A2	14	IVW	1.402(1.088–1.805)	■		0.009
PLA2G6	5	IVW	0.332(0.145–0.756)	■		0.009
RNLS	5	IVW	0.368(0.175–0.776)	■		0.009
NDUFAB1	1	Wald ratio	0.033(0.003–0.422)	■		0.009
NLRP1	14	IVW	0.625(0.438–0.892)	■		0.01
FBXL17	6	IVW	0.463(0.259–0.829)	■		0.01
LYZ	32	IVW	0.786(0.653–0.946)	■		0.011
CPT2	6	IVW	2.451(1.227–4.899)	■	-----■	0.011
RRAS2	4	IVW	1.702(1.127–2.57)	■		0.011
CISD1	27	IVW	1.291(1.058–1.576)	■		0.012
SIGLEC5	23	IVW	1.345(1.068–1.694)	■		0.012
ULK4	21	IVW	1.321(1.06–1.647)	■		0.013
CTPS1	13	IVW	1.52(1.09–2.119)	■		0.013
PVT1	7	IVW	1.678(1.114–2.529)	■		0.013
IDO1	9	IVW	1.626(1.107–2.391)	■		0.013
HCAR1	5	IVW	0.462(0.251–0.848)	■		0.013
MINPP1	2	IVW	0.072(0.009–0.58)	■		0.013
GLIPR1L1	1	Wald ratio	8.226(1.525–44.365)	■	-----■	0.014
CLCN7	16	IVW	0.686(0.507–0.929)	■		0.015
VWF	11	IVW	0.655(0.465–0.921)	■		0.015
RPN1	10	IVW	1.613(1.097–2.372)	■		0.015
FBXW7	4	IVW	0.253(0.084–0.766)	■		0.015
HLA-DQA1	16	IVW	1.237(1.041–1.471)	■		0.016
EIF4E	5	IVW	0.471(0.255–0.87)	■		0.016
PIGT	5	IVW	2.628(1.195–5.778)	■	-----■	0.016
NOG	2	IVW	0.259(0.087–0.776)	■		0.016
KDM3A	1	Wald ratio	0.162(0.037–0.709)	■		0.016
LAD1	1	Wald ratio	5.966(1.39–25.606)	■	-----■	0.016
RNASE6	20	IVW	0.789(0.65–0.958)	■		0.017
AXIN1	13	IVW	1.432(1.068–1.921)	■		0.017
GPR35	12	IVW	0.625(0.424–0.92)	■		0.017
MYCN	1	Wald ratio	0.009(0–0.424)	■		0.017
GPX7	27	IVW	0.76(0.604–0.955)	■		0.018
RELT	8	IVW	1.618(1.086–2.412)	■		0.018
CCR2	9	IVW	0.511(0.293–0.893)	■		0.018
XYLT2	1	Wald ratio	7.166(1.397–36.743)	■	-----■	0.018
B2M	1	Wald ratio	0.139(0.027–0.728)	■		0.019
PSMB3	8	IVW	0.537(0.319–0.906)	■		0.02
OBSCN	7	IVW	0.422(0.205–0.872)	■		0.02
KCNH2	5	IVW	2.617(1.165–5.881)	■	-----■	0.02
ALDH4A1	3	IVW	0.253(0.079–0.813)	■		0.021
NDUFV2	2	IVW	2.307(1.137–4.68)	■	-----■	0.021
NUDT7	17	IVW	1.374(1.047–1.803)	■		0.022
KLHL24	4	IVW	0.665(0.47–0.942)	■		0.022
CALCRL	6	IVW	2.139(1.114–4.11)	■	-----■	0.022
KL	8	IVW	0.506(0.282–0.906)	■		0.022
STK24	5	IVW	2.298(1.127–4.686)	■	-----■	0.022
CPM	5	IVW	2.812(1.164–6.793)	■	-----■	0.022
CSNK1G2	6	IVW	0.459(0.235–0.894)	■		0.022
GNE	8	IVW	2.173(1.112–4.245)	■	-----■	0.023
PLAUR	7	IVW	2.383(1.129–5.026)	■	-----■	0.023
NDUFA5	1	Wald ratio	4.476(1.216–16.48)	■	-----■	0.024
CD300A	12	IVW	1.507(1.053–2.157)	■		0.025
KBTBD7	3	IVW	2.146(1.1–4.187)	■	-----■	0.025
MYT1L	3	IVW	2.404(1.114–5.186)	■	-----■	0.025
SEMA3A	5	IVW	2.436(1.12–5.299)	■	-----■	0.025
HLA-A	14	IVW	1.567(1.057–2.324)	■		0.026
ACVR2A	6	IVW	0.515(0.287–0.924)	■		0.026
CLOCK	6	IVW	1.806(1.072–3.044)	■		0.026
ADRB2	6	IVW	2.564(1.117–5.885)	■	-----■	0.026
CBFB	1	Wald ratio	0.099(0.013–0.762)	■		0.026
COL6A3	3	IVW	0.438(0.211–0.909)	■		0.027
IL27	4	IVW	2.702(1.118–6.534)	■	-----■	0.027
IRF6	10	IVW	0.669(0.468–0.957)	■		0.028
CNGA1	7	IVW	0.576(0.352–0.942)	■		0.028
BCL2L11	5	IVW	3.61(1.152–11.314)	■	-----■	0.028
AOAH	24	IVW	0.746(0.574–0.97)	■		0.029
NUP107	19	IVW	1.399(1.034–1.891)	■		0.029
PPP5C	11	IVW	1.468(1.039–2.073)	■		0.029
GLUL	6	IVW	0.493(0.261–0.932)	■		0.029
GP1BA	1	Wald ratio	6.275(1.208–32.602)	■	-----■	0.029
IGLV7–43	2	IVW	2.246(1.088–4.636)	■	-----■	0.029
ANGPT4	2	IVW	0.061(0.005–0.748)	■		0.029
KLHL33	1	Wald ratio	0.069(0.006–0.762)	■		0.029
PEPD	6	IVW	0.466(0.234–0.929)	■		0.03
GSTM3	25	IVW	0.846(0.726–0.984)	■		0.031
ENTPD1	17	IVW	1.356(1.029–1.789)	■		0.031
FASLG	4	IVW	2.703(1.094–6.68)	■	-----■	0.031
POLH	1	Wald ratio	0.021(0.001–0.706)	■		0.031
NR4A1	1	Wald ratio	0.025(0.001–0.717)	■		0.031
NCSTN	21	IVW	1.314(1.024–1.684)	■		0.032
GSR	14	IVW	1.446(1.033–2.024)	■		0.032
CARM1	5	IVW	0.56(0.33–0.951)	■		0.032
PXDN	22	IVW	1.252(1.018–1.541)	■		0.033
FZD1	10	IVW	1.5(1.033–2.178)	■		0.033
TOB1	14	IVW	1.456(1.032–2.057)	■		0.033
TEC	5	IVW	0.242(0.066–0.89)	■		0.033
STAB2	1	Wald ratio	0.025(0.001–0.75)	■		0.034
PPT1	30	IVW	1.3(1.018–1.659)	■		0.035
MAST4	7	IVW	1.749(1.041–2.94)	■		0.035
CHN2	18	IVW	0.714(0.521–0.977)	■		0.036
GRIK4	14	IVW	1.403(1.023–1.925)	■		0.036
CDC42BPB	11	IVW	0.657(0.443–0.973)	■		0.036
CELSR2	7	IVW	1.903(1.043–3.471)	■		0.036
ALDH1B1	4	IVW	2.697(1.067–6.822)	■	-----■	0.036
HSPA1A	1	Wald ratio	7.855(1.139–54.19)	■	-----■	0.036
MBTPS1	18	IVW	1.386(1.02–1.885)	■		0.037
TRIM24	18	IVW	0.673(0.465–0.976)	■		0.037
AKT1	7	IVW	1.532(1.027–2.287)	■		0.037
GPI	3	IVW	4.01(1.087–14.789)	■	-----■	0.037
RABEP1	28	IVW	1.245(1.013–1.531)	■		0.038
LRPAP1	11	IVW	0.595(0.364–0.971)	■		0.038
MAP3K6	15	IVW	0.76(0.587–0.984)	■		0.038
FSTL3	2	IVW	2.503(1.051–5.959)	■	-----■	0.038
AKAP13	7	IVW	1.8(1.031–3.145)	■		0.039
FCGRT	7	IVW	0.551(0.313–0.971)	■		0.039
HSPA8	1	Wald ratio	5.419(1.09–26.939)	■	-----■	0.039
IFIT2	2	IVW	0.183(0.036–0.919)	■		0.039
ACADM	14	IVW	0.716(0.521–0.984)	■		0.04
EIF2AK1	9	IVW	0.584(0.349–0.977)	■		0.04
GABRR2	2	IVW	0.362(0.137–0.956)	■		0.04
MARK2	4	IVW	2.548(1.044–6.217)	■	-----■	0.04
PSIP1	1	Wald ratio	0.059(0.004–0.88)	■		0.04
KCNN3	2	IVW	0.119(0.016–0.906)	■		0.04
OAS1	23	IVW	1.234(1.009–1.508)	■		0.041
TEK	21	IVW	1.267(1.01–1.588)	■		0.041
DDX5	11	IVW	1.294(1.011–1.657)	■		0.041
IL7R	11	IVW	1.6(1.02–2.51)	■		0.041
PYGL	8	IVW	0.666(0.45–0.984)	■		0.041
ELANE	2	IVW	2.673(1.039–6.878)	■	-----■	0.041
PTGER4	12	IVW	0.621(0.393–0.983)	■		0.042
PSMD8	3	IVW	0.295(0.091–0.958)	■		0.042
MME	5	IVW	2.292(1.028–5.109)	■	-----■	0.043
CORIN	16	IVW	0.726(0.532–0.991)	■		0.044
SLC11A2	4	IVW	0.288(0.086–0.967)	■		0.044
CMKLR1	14	IVW	1.324(1.006–1.742)	■		0.045
APH1B	13	IVW	0.664(0.445–0.991)	■		0.045
GPLD1	1	Wald ratio	0.173(0.031–0.962)	■		0.045
PMP22	10	IVW	1.555(1.008–2.398)	■		0.046
AK4	5	IVW	0.463(0.218–0.986)	■		0.046
SLAMF8	6	IVW	1.503(1.008–2.24)	■		0.046
ERP44	2	IVW	0.267(0.073–0.974)	■		0.046
CDH23	22	IVW	1.258(1.003–1.577)	■		0.047
PDGDS	6	IVW	0.651(0.426–0.995)	■		0.047
DYRK4	10	IVW	1.758(1.007–3.071)	■		0.047
LAP3	27	IVW	0.818(0.671–0.998)	■		0.048
TRAF3IP2	9	IVW	0.647(0.421–0.996)	■		0.048
GPR83	9	IVW	1.595(1.004–2.534)	■		0.048
GDF15	6	IVW	0.544(0.298–0.994)	■		0.04

forestplot_finngen_R10_OSTPOATFRCTURE_POSTEMENO					
Exposure	NSnp	Method	OR		Pvalue
KAT2B	15	IVW	0.6(0.461–0.782)		0
NR2F6	19	IVW	0.804(0.703–0.919)		0.001
ABO	16	IVW	0.84(0.758–0.929)		0.001
SPTBN1	17	IVW	1.349(1.139–1.597)		0.001
NEGR1	14	IVW	1.373(1.139–1.655)		0.001
GHRL	4	IVW	0.619(0.472–0.813)		0.001
CBX1	3	IVW	0.61(0.455–0.818)		0.001
EIF3A	1	Wald ratio	0.273(0.126–0.592)		0.001
CD55	24	IVW	1.206(1.068–1.361)		0.002
GSTZ1	17	IVW	1.342(1.109–1.624)		0.002
IGLV3–12	8	IVW	0.883(0.818–0.954)		0.002
CD1E	9	IVW	0.644(0.486–0.854)		0.002
UGT2B17	12	IVW	1.372(1.125–1.673)		0.002
BTN3A3	9	IVW	1.968(1.286–3.012)		0.002
RB1	2	IVW	2.155(1.331–3.49)		0.002
SMO	3	IVW	3.173(1.51–6.666)		0.002
RIPK2	7	IVW	0.679(0.528–0.874)		0.003
XRCC5	3	IVW	0.5(0.317–0.791)		0.003
FN1	7	IVW	1.87(1.24–2.822)		0.003
PIK3R1	6	IVW	1.92(1.242–2.966)		0.003
ATP2C1	3	IVW	0.414(0.23–0.744)		0.003
CDK5R1	26	IVW	0.842(0.749–0.948)		0.004
C5	25	IVW	0.824(0.722–0.939)		0.004
PLEK	16	IVW	0.776(0.652–0.924)		0.004
ETS2	13	IVW	0.706(0.555–0.896)		0.004
UMPS	3	IVW	0.555(0.373–0.825)		0.004
CHUK	2	IVW	0.469(0.281–0.783)		0.004
PTGER4	12	IVW	1.386(1.105–1.739)		0.005
IL17RA	6	IVW	1.523(1.139–2.037)		0.005
UQCR10	4	IVW	0.307(0.134–0.702)		0.005
CD200R1	15	IVW	0.763(0.631–0.924)		0.006
CYB5D2	3	IVW	0.696(0.537–0.903)		0.006
GABRR2	2	IVW	1.992(1.213–3.27)		0.006
CYSLTR2	1	Wald ratio	0.247(0.092–0.668)		0.006
PSMD11	1	Wald ratio	0.148(0.038–0.574)		0.006
POLI	19	IVW	1.244(1.061–1.458)		0.007
ITIH4	15	IVW	0.831(0.726–0.951)		0.007
ABCC4	16	IVW	0.806(0.689–0.944)		0.007
ATP10A	12	IVW	1.298(1.074–1.57)		0.007
PICALM	10	IVW	0.594(0.406–0.867)		0.007
MVD	6	IVW	1.634(1.147–2.328)		0.007
IL2RA	7	IVW	0.505(0.308–0.826)		0.007
PDIA3	1	Wald ratio	0.32(0.139–0.736)		0.007
KLHL32	1	Wald ratio	0.173(0.048–0.622)		0.007
TPP1	12	IVW	1.286(1.067–1.55)		0.008
HSPH1	5	IVW	1.597(1.13–2.258)		0.008
INSR	4	IVW	2.171(1.227–3.84)		0.008
ERCC4	2	IVW	0.177(0.049–0.634)		0.008
GPX4	16	IVW	0.873(0.789–0.966)		0.009
SRD5A3	17	IVW	1.267(1.061–1.514)		0.009
EPM2A	11	IVW	1.417(1.091–1.839)		0.009
CTSA	7	IVW	1.589(1.12–2.254)		0.009
IPO4	1	Wald ratio	0.484(0.281–0.835)		0.009
GJA3	3	IVW	0.515(0.311–0.853)		0.01
NEK9	4	IVW	3.04(1.304–7.086)		0.01
SENP6	20	IVW	0.803(0.678–0.951)		0.011
PSMD5	5	IVW	1.513(1.101–2.077)		0.011
IPO7	1	Wald ratio	2.488(1.229–5.038)		0.011
TPBG	8	IVW	0.733(0.575–0.935)		0.012
JUN	9	IVW	0.73(0.571–0.934)		0.012
FKBP10	1	Wald ratio	5.32(1.446–19.576)		0.012
IGLV3–25	4	IVW	1.28(1.054–1.553)		0.013
GPR75	1	Wald ratio	0.259(0.089–0.756)		0.013
IL20RB	1	Wald ratio	5.436(1.419–20.826)		0.013
FKBP11	9	IVW	0.75(0.596–0.943)		0.014
ABCC2	4	IVW	1.784(1.122–2.837)		0.014
ESR1	3	IVW	1.86(1.134–3.05)		0.014
IL15	10	IVW	0.66(0.473–0.923)		0.015
HK1	10	IVW	1.438(1.073–1.927)		0.015
XRCC1	7	IVW	1.368(1.064–1.76)		0.015
ATP2A3	8	IVW	1.644(1.102–2.452)		0.015
IGLV3–16	3	IVW	1.269(1.047–1.538)		0.015
CRTC1	3	IVW	3.44(1.271–9.312)		0.015
KBTBD11	19	IVW	0.819(0.696–0.965)		0.017
GUCY2C	8	IVW	0.688(0.506–0.934)		0.017
KLHL7	8	IVW	0.685(0.5–0.938)		0.018
SLC12A1	22	IVW	0.911(0.842–0.985)		0.019
AKR1C4	4	IVW	0.412(0.196–0.866)		0.019
AGRN	3	IVW	2.446(1.161–5.153)		0.019
SYT2	1	Wald ratio	0.041(0.003–0.597)		0.019
STK17B	8	IVW	0.713(0.536–0.949)		0.02
FCRLA	7	IVW	1.632(1.079–2.466)		0.02
S1PR2	3	IVW	0.656(0.459–0.936)		0.02
CAMLG	10	IVW	1.217(1.031–1.437)		0.021
VCP	8	IVW	0.763(0.606–0.96)		0.021
GABBR1	3	IVW	1.445(1.057–1.976)		0.021
SLFN11	10	IVW	0.734(0.565–0.954)		0.021
CD160	3	IVW	0.701(0.518–0.948)		0.021
IDO2	2	IVW	0.439(0.218–0.884)		0.021
BHLHE40	6	IVW	0.466(0.243–0.892)		0.021
TUBB6	14	IVW	1.182(1.024–1.364)		0.022
EPHB4	24	IVW	1.146(1.02–1.287)		0.022
KLC1	12	IVW	0.79(0.645–0.966)		0.022
GNMT	10	IVW	0.851(0.742–0.977)		0.022
GPR65	12	IVW	0.737(0.567–0.957)		0.022
HLA–DRA	3	IVW	0.421(0.2–0.882)		0.022
ATP2B1	1	Wald ratio	0.158(0.033–0.77)		0.022
STAT6	22	IVW	1.204(1.026–1.413)		0.023
CBR1	7	IVW	0.742(0.574–0.959)		0.023
PIK3R3	8	IVW	1.333(1.041–1.707)		0.023
CANX	5	IVW	0.712(0.531–0.954)		0.023
BRPF1	2	IVW	2.824(1.152–6.922)		0.023
C9orf72	15	IVW	0.85(0.739–0.979)		0.024
LIG1	8	IVW	0.786(0.638–0.969)		0.024
CLOCK	6	IVW	1.366(1.042–1.79)		0.024
CHRNE	4	IVW	1.419(1.048–1.922)		0.024
LMCD1	4	IVW	0.683(0.489–0.953)		0.025
HP	21	IVW	0.828(0.702–0.978)		0.026
NDUFA11	1	Wald ratio	0.506(0.278–0.922)		0.026
MSR1	21	IVW	0.841(0.721–0.981)		0.027
WNT3	1	Wald ratio	2.174(1.087–4.346)		0.028
NAGS	1	Wald ratio	3.512(1.148–10.745)		0.028
GSTT1	21	IVW	0.903(0.824–0.989)		0.029
CTNNB1	3	IVW	0.595(0.373–0.948)		0.029
FCN1	18	IVW	1.148(1.013–1.301)		0.03
SERPINE2	18	IVW	1.134(1.012–1.27)		0.03
TXK	11	IVW	1.243(1.022–1.513)		0.03
CLEC10A	7	IVW	1.274(1.023–1.586)		0.03
CELSR2	7	IVW	1.555(1.043–2.317)		0.03
IGLV2–18	1	Wald ratio	1.369(1.031–1.818)		0.03
SLC39A14	1	Wald ratio	0.315(0.111–0.896)		0.03
P2RX1	24	IVW	1.118(1.01–1.237)		0.031
CSF1R	11	IVW	0.761(0.594–0.975)		0.031
DYRK4	10	IVW	1.48(1.036–2.116)		0.031
USP1	2	IVW	1.759(1.053–2.94)		0.031
TNNC1	3	IVW	1.991(1.067–3.718)		0.031
CACNA1D	2	IVW	2.561(1.091–6.013)		0.031
CYP3A5	2	IVW	3.322(1.114–9.91)		0.031
PDK4	8	IVW	0.716(0.528–0.971)		0.032
CHEK2	2	IVW	0.39(0.165–0.924)		0.032
BAP1	1	Wald ratio	0.2(0.046–0.873)		0.032
UBC	1	Wald ratio	6.114(1.166–32.06)		0.032
RTKN2	18	IVW	1.214(1.016–1.451)		0.033
PI3	9	IVW	1.254(1.019–1.545)		0.033
CD69	1	Wald ratio	0.181(0.038–0.874)		0.033
GEM	1	Wald ratio	0.318(0.111–0.911)		0.033
TGFB2	1	Wald ratio	3.957(1.117–14.018)		0.033
GPR88	1	Wald ratio	9.479(1.195–75.158)		0.033
MFNG	3	IVW	0.685(0.482–0.973)		0.034
DFFB	1	Wald ratio	0.382(0.156–0.932)		0.034
NUCB1	14	IVW	1.174(1.011–1.363)		0.035
ITPR3	21	IVW	0.866(0.758–0.99)		0.035
INSL3	10	IVW	0.843(0.719–0.988)		0.035
PTGES	11	IVW	0.789(0.632–0.985)		0.036
XPC	3	IVW	1.706(1.035–2.812)		0.036
INPP5A	2	IVW	1.727(1.037–2.876)		0.036
UTRN	4	IVW	0.545(0.31–0.961)		0.036
OLR1	1	Wald ratio	4.036(1.094–14.886)		0.036
TNNC2	9	IVW	0.796(0.643–0.986)		0.037
BACE2	6	IVW	0.701(0.503–0.979)		0.037
TACR2	1	Wald ratio	2.066(1.044–4.087)		0.037
GALNT2	4	IVW	0.44(0.203–0.954)		0.037
IGKV3D–15	1	Wald ratio	1.77(1.036–3.025)		0.037
CCL28	4	IVW	0.572(0.337–0.97)		0.038
LIF	1	Wald ratio	9.673(1.132–82.653)		0.038
FCGBP	23	IVW	0.855(0.737–0.992)		0.039
DHCR24	7	IVW	0.748(0.568–0.986)		0.039
FGFRL1	7	IVW	0.75(0.571–0.985)		0.039
IGLV4–69	1	Wald ratio	1.307(1.014–1.686)		0.039
PLAT	1	Wald ratio	2.942(1.052–8.23)		0.04
IVNS1ABP	8	IVW	0.764(0.591–0.988)		0.041
NME1	19	IVW	0.863(0.749–0.995)		0.042
ITM2B	9	IVW	0.756(0.577–0.99)		0.042
GSTO1	7	IVW	0.75(0.568–0.989)		0.042
LYPD5	2	IVW	1.831(1.021–3.283)		0.042
RHBDF2	3	IVW	2.725(1.036–7.167)		0.042
ITGA2B	1	Wald ratio	0.053(0.003–0.905)		0.042
BCAT1	26	IVW	1.118(1.003–1.245)		0.043
PON2	13	IVW	1.192(1.005–1.413)		0.043
LIPC	10	IVW	0.78(0.613–0.992)		0.043
SIK2	4	IVW	1.432(1.011–2.029)		0.043
APOD	3	IVW	1.576(1.013–2.452)		0.043
HILPDA	1	Wald ratio	2.532(1.028–6.239)		0.043
EGR2	1	Wald ratio	2.796(1.033–7.569)		0.043
GSN	21	IVW	0.876(0.77–0.997)		0.044
NDUFS5	23	IVW	0.878(0.774–0.996)		0.044
CTSC	17	IVW	1.133(1.004–1.279)		0.044
CPAMD8	7	IVW	0.761(0.583–0.993)		0.044
MVK	2	IVW	0.426(0.186–0.977)		0.044
TNFSF4	9	IVW	0.802(0.646–0.996)		0.045
DHX36	12	IVW	0.791(0.629–0.995)		0.045
FMO4	11	IVW	0.739(0.55–0.994)		0.045
SERPINI1	5	IVW	1.596(1.01–2.521)		0.045
IGF2BP2	2	IVW	0.318(0.104–0.974)		0.045
KYNU	12	IVW	1.195(1.004–1.423)		0.046
U2AF1	3	IVW	0.722(0.524–0.994)		0.046
BAX	9	IVW	1.304(1.005–1.692)		0.046
HES1	2	IVW	0.521(0.274–0.989)		0.046
PLIN1	3	IVW	1.887(1.01–3.525)		0.046
HDAC11	5	IVW	2.235(1.013–4.933)		0.046
HDAC10	4	IVW	1.372(1.006–1.873)		0.046
HSPE1	1	Wald ratio	1.763(1.01–3.077)		0.046
TSSK4	2	IVW	0.33(0.111–0.98)		0.046
KL	8	IVW	0.736(0.543–0.996)		0.047
CD207	4	IVW	1.789(1.008–3.176)		0.047
IGKV3–7	2	IVW	1.859(1.007–3.431)		0.047
EDAR	5	IVW	1.831(1.006–3.33)</		

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Exposure	NSnp	Method	OR		Pvalue	
TNFRSF10B	11	IVW	1.002(1.001–1.004)		0	
CTNNB1	10	IVW	1.004(1.002–1.006)		0	
LPAR5	10	IVW	1.003(1.001–1.004)		0	
CDKAL1	12	IVW	0.997(0.996–0.999)		0	
KLC3	8	IVW	1.004(1.002–1.007)		0	
ABHD12	7	IVW	1.005(1.003–1.007)		0	
SMAD3	8	IVW	0.994(0.992–0.996)		0	
CBFB	1	Wald ratio	0.979(0.967–0.99)		0	
GFPT1	19	IVW	0.998(0.997–0.999)		0.001	
NDUFA6	9	IVW	1.002(1.001–1.003)		0.001	
ST14	13	IVW	0.998(0.997–0.999)		0.001	
SREBF1	14	IVW	1.002(1.001–1.004)		0.001	
GNAS	10	IVW	1.003(1.001–1.005)		0.001	
NOD1	3	IVW	0.995(0.991–0.998)		0.001	
PCNA	1	Wald ratio	1.007(1.003–1.011)		0.001	
DKK2	1	Wald ratio	0.99(0.984–0.996)		0.001	
KLHL25	1	Wald ratio	1.016(1.007–1.026)		0.001	
CCR1	24	IVW	1.002(1.001–1.003)		0.002	
VASP	19	IVW	0.998(0.997–0.999)		0.002	
PSMD13	5	IVW	0.998(0.996–0.999)		0.002	
C4A	8	IVW	0.999(0.998–1)		0.002	
HMGCR	2	IVW	1.006(1.002–1.01)		0.002	
XCR1	3	IVW	0.995(0.992–0.998)		0.002	
SFN	2	IVW	0.992(0.987–0.997)		0.002	
NCF4	6	IVW	1.005(1.002–1.009)		0.002	
NPF4	1	Wald ratio	0.978(0.965–0.992)		0.002	
PPIL3	24	IVW	0.999(0.998–1)		0.003	
SPP1	21	IVW	1.002(1.001–1.003)		0.003	
HLA-DPB2	15	IVW	1.001(1.001–1.002)		0.003	
AXIN1	14	IVW	0.998(0.997–0.999)		0.003	
SPTBN1	17	IVW	1.002(1.001–1.003)		0.003	
NPPA-AS1	7	IVW	0.999(0.998–1)		0.003	
IGFBP3	14	IVW	1.002(1.001–1.004)		0.003	
TXN	14	IVW	0.997(0.994–0.999)		0.003	
APOM	1	Wald ratio	0.994(0.991–0.998)		0.003	
NEU1	2	IVW	0.995(0.991–0.998)		0.003	
ESAM	2	IVW	0.99(0.983–0.997)		0.003	
VNN1	30	IVW	0.999(0.998–1)		0.004	
HLA-DQB1	21	IVW	0.999(0.998–1)		0.004	
IL18R1	10	IVW	1.002(1.001–1.003)		0.004	
IL1RAP	6	IVW	0.997(0.995–0.999)		0.004	
PGP	2	IVW	1.003(1.001–1.006)		0.004	
STK17A	2	IVW	0.992(0.987–0.998)		0.004	
ATXN1L	1	Wald ratio	1.014(1.004–1.024)		0.004	
P2RX4	17	IVW	1.001(1–1.002)		0.005	
SACM1L	15	IVW	0.998(0.997–1)		0.005	
IMPA2	10	IVW	0.997(0.995–0.999)		0.005	
ACVR2B	6	IVW	1.002(1–1.003)		0.005	
PDE6H	8	IVW	0.997(0.995–0.999)		0.005	
CXCR6	11	IVW	0.997(0.996–0.999)		0.005	
MAFB	4	IVW	0.997(0.994–0.999)		0.005	
UGT8	2	IVW	1.004(1.001–1.007)		0.005	
DAG1	1	Wald ratio	1.009(1.003–1.014)		0.005	
ARRB2	9	IVW	0.996(0.994–0.999)		0.006	
LY9	5	IVW	0.997(0.995–0.999)		0.006	
ADAMTS10	2	IVW	1.003(1.001–1.006)		0.006	
CDC42BPA	5	IVW	0.996(0.993–0.999)		0.006	
GGT5	2	IVW	0.993(0.987–0.998)		0.006	
MAG	2	Wald ratio	1.008(1.002–1.013)		0.006	
AAK1	1	Wald ratio	0.983(0.97–0.995)		0.006	
MGST3	28	IVW	0.999(0.998–1)		0.007	
VIPR1	19	IVW	1.002(1–1.003)		0.007	
ITIH3	2	IVW	0.994(0.99–0.998)		0.007	
SGK3	3	IVW	0.992(0.986–0.998)		0.007	
PCYOX1L	16	IVW	1.001(1–1.002)		0.008	
EIF2B1	16	IVW	0.998(0.996–0.999)		0.008	
STK11	6	IVW	1.002(1.001–1.004)		0.008	
UBC	1	Wald ratio	1.015(1.004–1.027)		0.008	
MYLK4	7	IVW	1.001(1–1.002)		0.009	
ERCC2	3	IVW	0.997(0.996–0.999)		0.009	
KLHL29	4	IVW	1.006(1.001–1.01)		0.009	
CPXM1	3	IVW	1.007(1.002–1.012)		0.009	
NFATC2	1	Wald ratio	1.015(1.004–1.026)		0.009	
ITGA4	20	IVW	1.001(1–1.002)		0.01	
IGFBP2	8	IVW	0.998(0.997–1)		0.01	
NKTR	10	IVW	0.998(0.996–1)		0.01	
KAT8	7	IVW	1.003(1.001–1.005)		0.01	
OPLAH	1	Wald ratio	1.009(1.002–1.016)		0.01	
NOTCH4	5	IVW	1.003(1.001–1.005)		0.011	
ADAM12	4	IVW	1.004(1.001–1.006)		0.011	
CDKL3	1	Wald ratio	1.012(1.003–1.022)		0.011	
BCL2L11	5	IVW	1.005(1.001–1.009)		0.012	
ADORA2B	13	IVW	0.999(0.997–1)		0.013	
DPEP3	9	IVW	1.002(1–1.003)		0.013	
INPP5D	6	IVW	0.998(0.996–0.999)		0.013	
CEP72	2	IVW	1.005(1.001–1.009)		0.013	
HSPA1A	1	Wald ratio	1.008(1.002–1.015)		0.013	
PAX5	1	Wald ratio	1.017(1.004–1.031)		0.013	
PASK	11	IVW	0.999(0.998–1)		0.014	
ITGAL	5	IVW	1.006(1.001–1.011)		0.014	
NR1D1	5	IVW	1.003(1.001–1.005)		0.014	
CALM3	6	IVW	1.003(1.001–1.005)		0.014	
SF3B1	2	IVW	1.005(1.001–1.009)		0.014	
MTHFR	18	IVW	0.999(0.998–1)		0.015	
TNXB	6	IVW	0.999(0.998–1)		0.015	
CD34	2	IVW	0.994(0.989–0.999)		0.015	
CLU	1	Wald ratio	1.009(1.002–1.016)		0.015	
TP73	2	IVW	0.99(0.983–0.998)		0.015	
NEK11	8	IVW	1.002(1–1.003)		0.017	
SLC17A9	6	IVW	1.002(1–1.005)		0.017	
CANX	5	IVW	1.002(1–1.004)		0.017	
ITPKC	2	IVW	1.006(1.001–1.012)		0.017	
PLAA	3	IVW	0.994(0.989–0.999)		0.017	
SSRP1	2	IVW	1.01(1.002–1.018)		0.017	
CTSH	15	IVW	0.999(0.998–1)		0.018	
THBS3	21	IVW	1.001(1–1.002)		0.018	
COCH	7	IVW	0.998(0.997–1)		0.018	
PLGLB2	3	IVW	0.999(0.998–1)		0.018	
SECTM1	4	IVW	1.003(1.001–1.006)		0.018	
NFKBIL1	2	IVW	1.006(1.001–1.011)		0.018	
COL15A1	1	Wald ratio	0.993(0.987–0.999)		0.018	
DFFB	2	IVW	0.995(0.99–0.999)		0.018	
GPR88	1	Wald ratio	1.017(1.003–1.032)		0.018	
RBL2	25	IVW	1.001(1–1.002)		0.019	
DHFR	15	IVW	0.999(0.999–1)		0.019	
NEGR1	14	IVW	1.001(1–1.002)		0.019	
GALK1	8	IVW	0.997(0.994–0.999)		0.019	
TMX2	2	IVW	0.998(0.996–1)		0.019	
AB13BP	1	Wald ratio	0.993(0.987–0.999)		0.019	
FLT3	3	IVW	0.994(0.99–0.999)		0.019	
CYB5R1	12	IVW	0.998(0.997–1)		0.02	
SPG7	8	IVW	1.003(1–1.005)		0.02	
ABCA5	2	IVW	1.003(1–1.005)		0.02	
CERKL	11	IVW	1.002(1–1.004)		0.02	
RRM2B	8	IVW	1.003(1–1.005)		0.02	
ADORA2A	2	IVW	0.996(0.992–0.999)		0.02	
RIOK3	3	IVW	0.993(0.986–0.999)		0.02	
BTN3A2	22	IVW	0.999(0.999–1)		0.021	
PADI2	25	IVW	1.001(1–1.002)		0.021	
CDK10	14	IVW	1.001(1–1.002)		0.021	
LTBP4	8	IVW	0.997(0.995–1)		0.021	
TNFRSF10A	9	IVW	0.998(0.997–1)		0.021	
CD164L2	2	IVW	0.997(0.995–1)		0.021	
IGF1R	12	IVW	0.998(0.996–1)		0.021	
SLC4A1	4	IVW	1.003(1–1.006)		0.021	
AURKA	3	IVW	0.993(0.987–0.999)		0.021	
SLC38A2	1	Wald ratio	1.013(1.002–1.025)		0.021	
CHSY1	9	IVW	0.999(0.998–1)		0.022	
MTOR	5	IVW	1.002(1–1.005)		0.022	
HSD3B7	5	IVW	0.997(0.995–1)		0.022	
MGLL	4	IVW	0.996(0.993–0.999)		0.022	
SENP2	1	Wald ratio	0.991(0.984–0.999)		0.022	
CCR10	2	IVW	1.008(1.001–1.016)		0.022	
EPHB4	22	IVW	0.999(0.998–1)		0.023	
PTCH1	11	IVW	1.002(1–1.003)		0.023	
HSPE1	1	Wald ratio	1.005(1.001–1.009)		0.023	
F5	18	IVW	1.001(1–1.002)		0.024	
CYP4F22	14	IVW	0.999(0.998–1)		0.024	
PROS1	3	IVW	0.997(0.995–1)		0.024	
DNTT	4	IVW	0.996(0.992–0.999)		0.024	
IGKV3D–15	1	Wald ratio	0.997(0.994–1)		0.024	
P4HB	1	Wald ratio	1.01(1.001–1.019)		0.024	
OPN3	12	IVW	0.998(0.997–1)		0.025	
JUN	9	IVW	1.002(1–1.004)		0.025	
CCR5	7	IVW	0.997(0.995–1)		0.025	
JAK2	7	IVW	0.997(0.995–1)		0.025	
NPPA	6	IVW	1.003(1–1.005)		0.025	
ZNF565	3	IVW	1.003(1–1.005)		0.025	
FUT4	1	Wald ratio	1.014(1.002–1.027)		0.025	
SCUBE3	1	Wald ratio	1.015(1.002–1.028)		0.025	
HLA-DQA1	15	IVW	0.999(0.999–1)		0.026	
FANCA	7	IVW	1.002(1–1.003)		0.026	
SLC7A7	10	IVW	1.002(1–1.003)		0.026	
CELA1	12	IVW	1.001(1–1.002)		0.027	
FAAH	11	IVW	0.999(0.998–1)		0.027	
CASP6	3	IVW	1.005(1.001–1.01)		0.027	
IGLV3–16	3	IVW	1.001(1–1.003)		0.027	
TUBA1B	2	IVW	0.994(0.989–0.999)		0.027	
ATP2A2	2	IVW	1.005(1.001–1.01)		0.027	
PPM1A	1	Wald ratio	1.01(1.001–1.018)		0.027	
ATG5	1	Wald ratio	1.012(1.001–1.022)		0.027	
PRL	1	Wald ratio	0.985(0.972–0.998)		0.027	
ACP5	21	IVW	0.999(0.998–1)		0.028	
MCM8	12	IVW	0.999(0.998–1)		0.028	
PSMD5	5	IVW	1.003(1–1.005)		0.028	
PRLR	5	IVW	0.997(0.994–1)		0.028	
THBS2	5	IVW	0.997(0.995–1)		0.028	
NCR1	2	IVW	0.994(0.989–0.999)		0.028	
CES4A	2	IVW	1.006(1.001–1.012)		0.028	
PPT1	30	IVW	1.001(1–1.002)		0.029	
TMED9	16	IVW	0.999(0.998–1)		0.029	
GLIPR1	9	IVW	1.002(1–1.004)		0.029	
SRPK1	12	IVW	0.998(0.997–1)		0.029	
CYBA	7	IVW	0.999(0.998–1)		0.029	
RASA1	7	IVW	1.004(1–1.007)		0.029	
BAD	1	Wald ratio	0.992(0.985–0.999)		0.029	
JAG1	4	IVW	0.992(0.985–0.999)		0.029	
WNT16	1	Wald ratio	1.009(1.001–1.016)		0.029	
IL17RB	4	IVW	0.997(0.994–1)		0.03	
KCNK7	3	IVW				

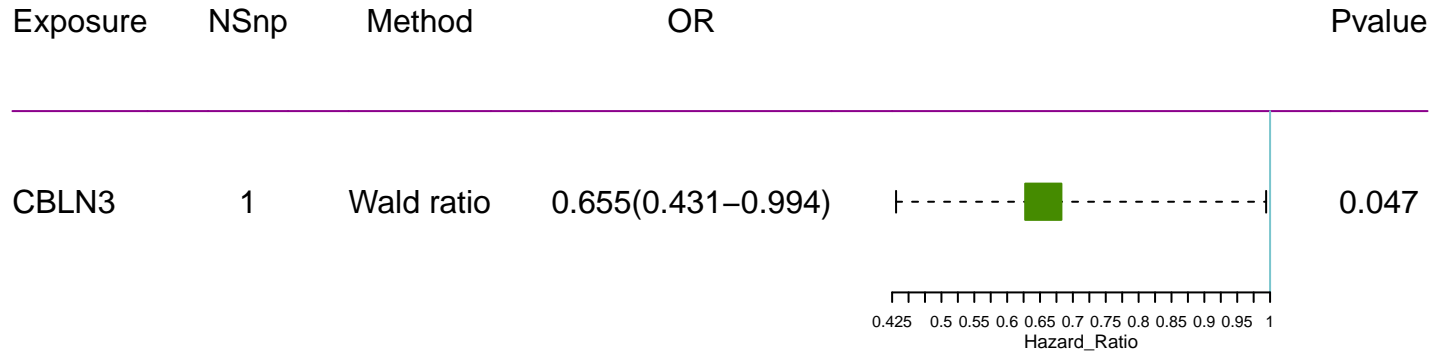
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Exposure	NSnp	Method	OR		Pvalue
LYG1	8	IVW	1.27(1.127–1.433)		0
CCL4	4	IVW	0.736(0.625–0.865)		0
ADCY5	2	IVW	0.113(0.039–0.333)		0
TNFSF12	15	IVW	1.252(1.099–1.427)		0.001
MBTPS1	19	IVW	0.826(0.736–0.927)		0.001
GRIK4	12	IVW	1.27(1.107–1.456)		0.001
PTGES	10	IVW	0.77(0.656–0.904)		0.001
CD63	7	IVW	1.723(1.258–2.361)		0.001
CD109	5	IVW	1.77(1.27–2.467)		0.001
ATP2B2	1	Wald ratio	4.572(1.83–11.42)		0.001
ANPEP	20	IVW	0.849(0.766–0.941)		0.002
RRP7A	29	IVW	0.876(0.803–0.956)		0.003
ITPKB	3	IVW	1.922(1.24–2.979)		0.003
TUBB6	14	IVW	1.154(1.048–1.271)		0.004
GFPT1	20	IVW	1.232(1.068–1.421)		0.004
AKR7A2	12	IVW	1.304(1.09–1.56)		0.004
ACTR2	4	IVW	0.603(0.427–0.851)		0.004
ESR1	3	IVW	0.552(0.369–0.825)		0.004
SRSF2	1	Wald ratio	0.25(0.097–0.645)		0.004
NPM1	1	Wald ratio	3.84(1.519–9.704)		0.004
FNTB	16	IVW	0.826(0.724–0.943)		0.005
PDGFB	7	IVW	0.799(0.683–0.936)		0.005
CERK	14	IVW	1.216(1.06–1.394)		0.005
CYB5R1	12	IVW	0.788(0.667–0.931)		0.005
NAGA	7	IVW	1.331(1.089–1.626)		0.005
ARNT	6	IVW	0.671(0.509–0.884)		0.005
CD68	4	IVW	0.687(0.53–0.89)		0.005
KBTBD8	3	IVW	2.3(1.278–4.141)		0.005
PLA2G2C	3	IVW	3.13(1.401–6.992)		0.005
ULBP2	2	IVW	0.385(0.199–0.745)		0.005
KLHL7	8	IVW	0.711(0.557–0.908)		0.006
HABP4	7	IVW	0.714(0.561–0.907)		0.006
KCNJ12	2	IVW	0.7(0.544–0.901)		0.006
MAP3K3	1	Wald ratio	0.334(0.152–0.735)		0.006
SLC5A11	11	IVW	0.78(0.65–0.935)		0.007
MYO3B	6	IVW	1.547(1.128–2.124)		0.007
SAG	1	Wald ratio	1.966(1.199–3.224)		0.007
TRIM24	17	IVW	1.206(1.05–1.385)		0.008
KDSR	10	IVW	0.822(0.711–0.95)		0.008
CDH1	10	IVW	1.293(1.069–1.565)		0.008
AK4	4	IVW	0.597(0.407–0.877)		0.008
DRD4	6	IVW	1.4(1.092–1.796)		0.008
FSTL4	3	IVW	0.511(0.31–0.842)		0.008
CHAD	1	Wald ratio	0.188(0.055–0.648)		0.008
GSTCD	2	IVW	0.641(0.459–0.894)		0.009
ICOS	6	IVW	1.697(1.144–2.518)		0.009
ADCY6	1	Wald ratio	0.298(0.121–0.735)		0.009
GH1	1	Wald ratio	0.386(0.189–0.786)		0.009
VASH1	26	IVW	0.911(0.849–0.978)		0.01
CD300LD	13	IVW	1.171(1.038–1.322)		0.01
DOCK8	16	IVW	0.86(0.766–0.965)		0.01
INVS	13	IVW	0.765(0.623–0.939)		0.01
CCL3L3	8	IVW	0.892(0.818–0.973)		0.01
PEPD	5	IVW	0.676(0.501–0.912)		0.01
KCNJ10	1	Wald ratio	0.595(0.401–0.883)		0.01
CA11	2	IVW	1.488(1.098–2.017)		0.01
TMED9	15	IVW	1.154(1.034–1.289)		0.011
IPP	12	IVW	1.201(1.044–1.382)		0.011
APEH	9	IVW	0.801(0.674–0.951)		0.011
ACADSB	5	IVW	0.499(0.291–0.855)		0.011
TBL1XR1	1	Wald ratio	0.31(0.126–0.763)		0.011
GPR141	6	IVW	0.752(0.602–0.94)		0.012
PGGT1B	6	IVW	1.425(1.082–1.878)		0.012
PROCR	2	IVW	0.57(0.367–0.885)		0.012
MAPK11	2	IVW	0.406(0.201–0.822)		0.012
KCNJ15	12	IVW	1.168(1.033–1.32)		0.013
TNNC2	9	IVW	1.238(1.045–1.466)		0.013
OLFML2A	2	IVW	2.478(1.209–5.076)		0.013
UBE2D1	22	IVW	1.099(1.019–1.186)		0.014
NUP62	9	IVW	0.772(0.627–0.95)		0.014
CRMP1	3	IVW	1.875(1.135–3.098)		0.014
DHFR	15	IVW	1.079(1.015–1.146)		0.015
CYB5D2	4	IVW	1.331(1.057–1.676)		0.015
CREB1	4	IVW	1.63(1.1–2.416)		0.015
SELP	4	IVW	1.583(1.092–2.295)		0.015
NDUFA10	15	IVW	1.159(1.027–1.308)		0.016
PADI4	15	IVW	0.863(0.765–0.973)		0.016
WRN	6	IVW	0.776(0.631–0.954)		0.016
CRIM1	4	IVW	1.507(1.081–2.101)		0.016
NOS2	4	IVW	1.961(1.132–3.396)		0.016
CES4A	2	IVW	2.04(1.14–3.652)		0.016
CALM1	3	IVW	1.682(1.097–2.578)		0.017
CHI3L2	24	IVW	1.116(1.019–1.222)		0.018
SLC22A16	14	IVW	1.094(1.016–1.179)		0.018
SNCA	10	IVW	0.781(0.635–0.959)		0.018
ENPP2	8	IVW	1.253(1.04–1.509)		0.018
MCOLN3	6	IVW	0.682(0.497–0.936)		0.018
CD8B	1	Wald ratio	3.584(1.247–10.298)		0.018
ORAI1	14	IVW	0.845(0.733–0.973)		0.019
ACVR2A	6	IVW	0.75(0.589–0.954)		0.019
CCNK	1	Wald ratio	2.495(1.16–5.367)		0.019
ST3GAL2	4	IVW	1.733(1.096–2.742)		0.019
CD55	23	IVW	0.904(0.83–0.984)		0.02
RGS17	9	IVW	1.21(1.031–1.42)		0.02
GGCX	8	IVW	1.219(1.031–1.441)		0.02
ST6GAL1	13	IVW	0.82(0.693–0.97)		0.02
LAMP1	2	IVW	0.437(0.218–0.877)		0.02
PANX1	22	IVW	1.161(1.023–1.318)		0.021
SREBF1	13	IVW	1.241(1.033–1.493)		0.021
IGLV4–69	1	Wald ratio	1.325(1.044–1.683)		0.021
SIK1	4	IVW	1.57(1.07–2.304)		0.021
UCP2	22	IVW	0.87(0.773–0.98)		0.022
SLC5A3	6	IVW	0.696(0.51–0.95)		0.022
BRSK1	3	IVW	0.672(0.478–0.945)		0.022
CYP20A1	1	Wald ratio	0.157(0.032–0.767)		0.022
S100A13	13	IVW	0.845(0.731–0.977)		0.023
CES1	10	IVW	1.102(1.013–1.198)		0.023
ITLN1	9	IVW	1.15(1.019–1.298)		0.023
MAPK9	11	IVW	1.279(1.035–1.58)		0.023
PIEZO1	15	IVW	0.852(0.742–0.978)		0.023
ATG16L1	2	IVW	0.699(0.513–0.951)		0.023
PNMT	1	Wald ratio	0.339(0.134–0.862)		0.023
KAT5	1	Wald ratio	0.305(0.11–0.848)		0.023
ITGB7	11	IVW	1.218(1.026–1.445)		0.024
MMEL1	10	IVW	1.119(1.015–1.233)		0.024
KCNK5	3	IVW	0.421(0.198–0.894)		0.024
HYOU1	2	IVW	3.515(1.179–10.485)		0.024
BTNL8	14	IVW	0.825(0.698–0.976)		0.025
C4A	7	IVW	0.873(0.775–0.983)		0.025
RPS6KB1	3	IVW	1.723(1.071–2.771)		0.025
KCNN4	24	IVW	0.89(0.803–0.986)		0.026
CPA5	17	IVW	1.103(1.012–1.202)		0.026
FGF9	2	IVW	2.807(1.132–6.959)		0.026
KBTBD11	20	IVW	1.138(1.015–1.277)		0.027
YES1	1	Wald ratio	0.635(0.424–0.95)		0.027
UBA2	1	Wald ratio	1.957(1.08–3.546)		0.027
ATP2B1	1	Wald ratio	0.222(0.058–0.845)		0.027
GSTM3	23	IVW	1.075(1.008–1.148)		0.028
MAN2C1	25	IVW	0.914(0.844–0.99)		0.028
MTRF1L	13	IVW	1.117(1.012–1.233)		0.028
HEBP1	13	IVW	0.849(0.734–0.982)		0.028
GNS	6	IVW	0.754(0.586–0.971)		0.028
LYPD5	2	IVW	1.662(1.058–2.61)		0.028
PDE9A	20	IVW	0.893(0.807–0.988)		0.029
SPHK2	2	IVW	1.532(1.045–2.246)		0.029
BPHL	3	IVW	0.675(0.475–0.961)		0.029
ATXN2	2	IVW	1.966(1.07–3.614)		0.029
CRTC2	1	Wald ratio	0.294(0.098–0.884)		0.029
GNPMB	20	IVW	1.159(1.015–1.324)		0.03
LY75	20	IVW	1.133(1.012–1.268)		0.03
FKBP11	10	IVW	1.212(1.019–1.442)		0.03
KLHL12	9	IVW	1.261(1.023–1.555)		0.03
CA8	8	IVW	1.287(1.025–1.616)		0.03
TGFB2	1	Wald ratio	3.329(1.127–9.835)		0.03
PTPN12	19	IVW	1.146(1.013–1.296)		0.031
ITGB1	2	IVW	2.168(1.073–4.381)		0.031
SACM1L	17	IVW	1.158(1.013–1.325)		0.032
GPR3	2	IVW	0.363(0.143–0.918)		0.032
VCL	12	IVW	0.836(0.709–0.985)		0.033
CD247	7	IVW	0.822(0.686–0.985)		0.033
CAPNS1	9	IVW	0.758(0.588–0.978)		0.033
PSMC1	1	Wald ratio	0.523(0.289–0.948)		0.033
CD96	15	IVW	1.151(1.01–1.313)		0.035
CAMKK1	1	Wald ratio	1.496(1.028–2.178)		0.035
IL17B	1	Wald ratio	6.998(1.146–42.725)		0.035
PARG	3	IVW	1.436(1.024–2.014)		0.036
AURKC	3	IVW	0.593(0.363–0.967)		0.036
ACE	1	Wald ratio	2.33(1.058–5.129)		0.036
CYB5R2	15	IVW	0.89(0.798–0.994)		0.038
DDRGK1	7	IVW	0.847(0.724–0.991)		0.038
KCNK6	8	IVW	1.263(1.013–1.576)		0.038
TNFRSF10D	4	IVW	1.577(1.026–2.424)		0.038
SLC22A14	2	IVW	0.427(0.191–0.953)		0.038
ENTPD1	17	IVW	0.887(0.792–0.994)		0.039
SLC15A4	5	IVW	1.313(1.013–1.701)		0.039
ACVR1B	2	IVW	1.481(1.02–2.149)		0.039
ENDOU	1	Wald ratio	1.516(1.021–2.252)		0.039
MAST2	2	IVW	1.497(1.021–2.195)		0.039
KRT8	1	Wald ratio	0.314(0.105–0.944)		0.039
FREM1	1	Wald ratio	4.469(1.075–18.576)		0.039
CD226	9	IVW	0.846(0.721–0.992)		0.04
PTP4A1	6	IVW	1.252(1.01–1.551)		0.04
RPN1	10	IVW	0.855(0.737–0.993)		0.04
DNMT3A	2	IVW	0.58(0.345–0.976)		0.04
KRAS	3	IVW	0.516(0.274–0.971)		0.04
CYP4V2	24	IVW	0.916(0.842–0.996)		0.041
GALT	9	IVW	0.818(0.675–0.992)		0.041
TRAF1	13	IVW	1.273(1.01–1.603)		0.041
PIGF	3	IVW	0.66(0.443–0.984)		0.041
ADORA2A–AS1	1	Wald ratio	2.761(1.044–7.305)		0.041
SCYL2	1	Wald ratio	0.505(0.263–0.972)		0.041
SCD5	23	IVW	0.867(0.755–0.995)		0.042
NEK3	8	IVW	1.257(1.009–1.567)		0.042
IGSF8	4	IVW	0.708(0.508–0.987)		0.042
MAPKAP1	1	Wald ratio	1.763(1.02–3.046)		0.042
RASGRP1	4	IVW	1.573(1.017–2.431)		0.042
DAG1	1	Wald ratio	0.497(0.253–0.975)		0.042
KRT18	3	IVW	0.657(0.438–0.986)		0.042
SLC22A3	3	IVW	0.592(0.357–0.982)		0.042
ULK2	6	IVW	0.783(0.618–0.993)		0.043
DNAJB11	1	Wald ratio	0.405(0.169–0.973)		0.043
FXN	2	IVW	0.369(0.141–0.97)		0.043
PRLR	5	IVW	0.725(0.531–0.991)		0.044
PTH2R	3	IVW	1.812(1.015–3.236)		0.044
NCEH1	6	IVW	1.355(1.007–1.823)		0.045
MAP3K11	19	IVW	1.133(1.002–1.281)		0.046
HSPA8	1	Wald ratio	0.513(0.266–0.989)		0.046

Exposure	NSnp	Method	OR	Pvalue
PINK1	2	IVW	1.744(1.323–2.3)	0
MAT2A	7	IVW	0.726(0.597–0.884)	0.001
BRPF1	2	IVW	2.544(1.435–4.509)	0.001
IGF2R	3	IVW	3.21(1.611–6.398)	0.001
GLI1	1	Wald ratio	5.338(1.913–14.89)	0.001
GNLY	20	IVW	0.855(0.773–0.945)	0.002
SIRPB1	26	IVW	0.869(0.794–0.95)	0.002
ABCC3	18	IVW	0.82(0.724–0.928)	0.002
CDC25B	15	IVW	0.747(0.619–0.901)	0.002
IRF3	9	IVW	0.723(0.59–0.887)	0.002
PCBD1	8	IVW	1.774(1.232–2.554)	0.002
BARD1	22	IVW	0.789(0.675–0.922)	0.003
SENP6	19	IVW	0.809(0.705–0.929)	0.003
RRP1B	5	IVW	1.651(1.192–2.285)	0.003
PGP	2	IVW	1.589(1.171–2.156)	0.003
NT5C2	13	IVW	0.785(0.665–0.927)	0.004
CA6	12	IVW	1.408(1.116–1.776)	0.004
OXR1	6	IVW	0.558(0.376–0.829)	0.004
ARSG	11	IVW	1.412(1.116–1.786)	0.004
CTLA4	2	IVW	0.505(0.316–0.807)	0.004
PTGES2	2	IVW	0.443(0.253–0.775)	0.004
PLCG1	6	IVW	0.519(0.331–0.813)	0.004
KLHL32	1	Wald ratio	0.178(0.056–0.569)	0.004
IK	4	IVW	1.47(1.122–1.927)	0.005
PODN	6	IVW	0.661(0.495–0.882)	0.005
MYO3B	6	IVW	0.585(0.402–0.852)	0.005
IGLV7–43	2	IVW	0.627(0.449–0.874)	0.006
WNT10A	1	Wald ratio	8.362(1.825–38.323)	0.006
THBS3	21	IVW	1.208(1.053–1.385)	0.007
EIF4A1	1	Wald ratio	6.873(1.709–27.641)	0.007
CD151	23	IVW	1.137(1.034–1.25)	0.008
C1QTNF6	12	IVW	0.797(0.673–0.943)	0.008
IFNL1	3	IVW	0.695(0.531–0.91)	0.008
HSD17B1	4	IVW	1.553(1.124–2.145)	0.008
WNT10B	2	IVW	2.143(1.22–3.764)	0.008
NISCH	3	IVW	0.4(0.204–0.785)	0.008
ALDH6A1	2	IVW	2.825(1.305–6.112)	0.008
CLK2	1	Wald ratio	9.761(1.8–52.935)	0.008
NOTCH1	3	IVW	1.586(1.124–2.238)	0.009
NDUFA2	14	IVW	0.766(0.625–0.938)	0.01
CCNA1	5	IVW	0.8(0.676–0.947)	0.01
JAK2	7	IVW	1.548(1.108–2.161)	0.01
CDKN2A	2	IVW	0.401(0.199–0.807)	0.01
CELSR2	7	IVW	1.453(1.088–1.94)	0.011
P4HB	1	Wald ratio	4.651(1.424–15.185)	0.011
AGRP	1	Wald ratio	0.517(0.308–0.867)	0.012
MAP4K1	4	IVW	0.576(0.376–0.885)	0.012
SSR2	1	Wald ratio	0.083(0.012–0.574)	0.012
SGK1	9	IVW	0.783(0.646–0.949)	0.013
TEP1	4	IVW	0.667(0.484–0.918)	0.013
NUMA1	4	IVW	0.67(0.487–0.921)	0.013
UGT2B28	2	IVW	1.328(1.061–1.662)	0.013
CCNA2	1	Wald ratio	2.481(1.209–5.091)	0.013
HSD11B2	1	Wald ratio	8.179(1.559–42.914)	0.013
S100A10	4	IVW	0.641(0.449–0.914)	0.014
RYR1	9	IVW	0.7(0.526–0.931)	0.014
LOXL3	7	IVW	0.722(0.557–0.936)	0.014
PCNA	1	Wald ratio	0.484(0.27–0.865)	0.014
GADD45A	4	IVW	2.359(1.191–4.673)	0.014
HDAC1	2	IVW	0.511(0.298–0.873)	0.014
WDR1	8	IVW	1.468(1.078–1.998)	0.015
SOAT2	3	IVW	1.52(1.085–2.131)	0.015
IGHV1–2	3	IVW	0.911(0.845–0.982)	0.015
POR	13	IVW	0.808(0.679–0.961)	0.016
XRCC3	8	IVW	1.316(1.053–1.645)	0.016
TXNRD1	3	IVW	0.334(0.137–0.814)	0.016
CERKL	11	IVW	0.733(0.568–0.947)	0.017
PIK3R6	2	IVW	0.327(0.129–0.828)	0.018
SF3B1	2	IVW	0.532(0.313–0.903)	0.019
CLC	1	Wald ratio	5.031(1.306–19.381)	0.019
SOS1	5	IVW	1.339(1.047–1.713)	0.02
NDUFB10	4	IVW	0.686(0.5–0.942)	0.02
BMP8A	7	IVW	0.848(0.738–0.974)	0.02
CD55	23	IVW	1.157(1.022–1.308)	0.021
CRELD2	15	IVW	1.154(1.022–1.304)	0.021
OPN3	11	IVW	0.821(0.694–0.971)	0.021
NPPA–AS1	6	IVW	0.883(0.794–0.981)	0.021
B4GALT1	10	IVW	1.275(1.037–1.568)	0.021
CD274	4	IVW	1.573(1.071–2.312)	0.021
MSH6	10	IVW	0.85(0.739–0.977)	0.022
CSNK1G1	5	IVW	0.648(0.447–0.939)	0.022
IGHV1–46	4	IVW	0.793(0.649–0.967)	0.022
LAD1	1	Wald ratio	2.319(1.131–4.753)	0.022
PDK4	8	IVW	0.694(0.508–0.95)	0.023
ITGB3	4	IVW	0.646(0.443–0.941)	0.023
MAP4K4	2	IVW	2.903(1.161–7.256)	0.023
PTPN6	1	Wald ratio	0.135(0.024–0.757)	0.023
TGM1	6	IVW	0.778(0.626–0.967)	0.024
UGT8	2	IVW	1.62(1.066–2.463)	0.024
RELA	1	Wald ratio	0.232(0.065–0.828)	0.024
NFE2	12	IVW	0.866(0.764–0.982)	0.025
SLC5A11	11	IVW	0.767(0.607–0.968)	0.025
IRF2	6	IVW	0.698(0.51–0.955)	0.025
ABI3BP	1	Wald ratio	2.441(1.117–5.333)	0.025
GPT	1	Wald ratio	0.177(0.039–0.801)	0.025
LILRB4	10	IVW	1.221(1.023–1.458)	0.027
SLC2A5	7	IVW	1.379(1.037–1.834)	0.027
NUP62	9	IVW	1.32(1.032–1.687)	0.027
GRN	10	IVW	0.718(0.536–0.962)	0.027
TRPM2	4	IVW	1.458(1.044–2.036)	0.027
SLC16A1	1	Wald ratio	1.841(1.07–3.167)	0.028
KIR2DL1	3	IVW	1.519(1.047–2.203)	0.028
ABL2	6	IVW	0.56(0.334–0.94)	0.028
NTN1	1	Wald ratio	2.14(1.083–4.226)	0.028
ARID1A	12	IVW	0.831(0.704–0.981)	0.029
UGT2B11	4	IVW	0.823(0.691–0.981)	0.029
PLAT	1	Wald ratio	0.346(0.134–0.894)	0.029
DDO	11	IVW	0.843(0.723–0.983)	0.03
CERK	14	IVW	0.816(0.68–0.98)	0.03
EEF2	3	IVW	0.673(0.471–0.961)	0.03
IGLC3	2	IVW	1.348(1.03–1.765)	0.03
CACNA1C	1	Wald ratio	0.215(0.053–0.871)	0.031
KCNK17	27	IVW	0.889(0.798–0.99)	0.032
MSH2	17	IVW	1.162(1.013–1.334)	0.032
FZD1	10	IVW	0.827(0.696–0.984)	0.032
GAD1	4	IVW	1.313(1.024–1.685)	0.032
IRAK4	6	IVW	0.678(0.475–0.967)	0.032
VHL	3	IVW	0.564(0.334–0.952)	0.032
VDAC1	1	Wald ratio	1.653(1.045–2.615)	0.032
NDUFS4	3	IVW	0.676(0.473–0.966)	0.032
PMEL	2	IVW	0.488(0.254–0.939)	0.032
SMAD7	4	IVW	1.915(1.059–3.463)	0.032
NDUFB7	2	IVW	2.497(1.084–5.753)	0.032
APBA1	2	IVW	3.285(1.107–9.745)	0.032
TUBA1A	5	IVW	1.417(1.028–1.954)	0.033
BOLA3	1	Wald ratio	0.223(0.056–0.889)	0.033
SPECC1L	7	IVW	0.831(0.7–0.986)	0.034
CENPE	1	Wald ratio	0.3(0.098–0.914)	0.034
LIPM	1	Wald ratio	2.978(1.083–8.186)	0.034
PSMA2	7	IVW	1.337(1.02–1.751)	0.035
HIPK2	5	IVW	1.924(1.046–3.538)	0.035
HLA–DPB2	17	IVW	1.132(1.008–1.272)	0.036
GFM1	5	IVW	0.509(0.271–0.955)	0.036
ACAT2	8	IVW	0.751(0.575–0.981)	0.036
CYP24A1	4	IVW	0.547(0.311–0.962)	0.036
EZH1	1	Wald ratio	0.302(0.098–0.926)	0.036
LGALS1	7	IVW	0.834(0.704–0.989)	0.037
PSMC1	1	Wald ratio	0.473(0.234–0.956)	0.037
C4BPA	16	IVW	0.931(0.869–0.996)	0.038
NQO2	20	IVW	1.104(1.005–1.213)	0.038
CD3D	2	IVW	0.572(0.337–0.971)	0.038
SSRP1	2	IVW	0.301(0.097–0.938)	0.038
CTSO	11	IVW	1.306(1.014–1.682)	0.039
ATR	1	Wald ratio	3.4(1.062–10.888)	0.039
GDF15	5	IVW	1.41(1.016–1.956)	0.04
CCNB1	2	IVW	1.721(1.026–2.887)	0.04
TPCN2	23	IVW	0.886(0.789–0.995)	0.041
P2RY14	8	IVW	1.26(1.01–1.573)	0.041
CHRNA1	9	IVW	0.801(0.648–0.991)	0.041
RGS5	5	IVW	0.705(0.505–0.986)	0.041
MGLL	4	IVW	0.557(0.318–0.975)	0.041
STK38	7	IVW	1.483(1.016–2.165)	0.041
IFNG	4	IVW	1.78(1.024–3.094)	0.041
CYP4F2	2	IVW	0.489(0.246–0.972)	0.041
CHEK1	2	IVW	2.364(1.036–5.39)	0.041
FXN	2	IVW	0.302(0.096–0.951)	0.041
GP9	1	Wald ratio	5.081(1.073–24.063)	0.041
PRKD3	17	IVW	1.189(1.006–1.405)	0.042
IDH2	7	IVW	1.314(1.01–1.709)	0.042
SORCS2	5	IVW	0.535(0.293–0.978)	0.042
HSPE1	1	Wald ratio	0.572(0.334–0.98)	0.042
MYO1H	1	Wald ratio	2.813(1.039–7.615)	0.042
HAGH	6	IVW	1.293(1.009–1.658)	0.043
SCPEP1	4	IVW	1.493(1.01–2.208)	0.044
RAF1	1	Wald ratio	1.583(1.013–2.473)	0.044
ATP2A3	8	IVW	0.684(0.473–0.99)	0.044
LPAR1	32	IVW	0.915(0.84–0.998)	0.045
DNAJB11	1	Wald ratio	0.347(0.123–0.979)	0.045
MAP2K3	1	Wald ratio	3.117(1.025–9.476)	0.045
DYNC2H1	1	Wald ratio	0.324(0.108–0.975)	0.045
CDKN2C	2	IVW	3.076(1.028–9.208)	0.045
MMP25	12	IVW	0.866(0.752–0.998)	0.046
SGCA	6	IVW	0.843(0.713–0.997)	0.046
CCL4	4	IVW	0.81(0.659–0.996)	0.046
LRR4	2	IVW	1.592(1.008–2.516)	0.046
FXR2	1	Wald ratio	0.249(0.063–0.978)	0.046
VIT	3	IVW	0.78(0.61–0.997)	0.047
RPS6KA2	15	IVW	1.245(1.001–1.547)	0.048
TG	12	IVW	1.226(1.001–1.501)	0.049
DUT	6	IVW	0.763(0.583–0.999)	0.049
CDK15	2	IVW	1.954(1.003–3.809)	0.049
NF2	1	Wald ratio	6.808(1.01–45.902)	0.049
PADI4	15	IVW	0.853(0.727–1)	0.05
RRM2B	8	IVW	0.758(0.575–1)	0.05
CCR10	2	IVW	2.648(1.001–7.003)	0.05

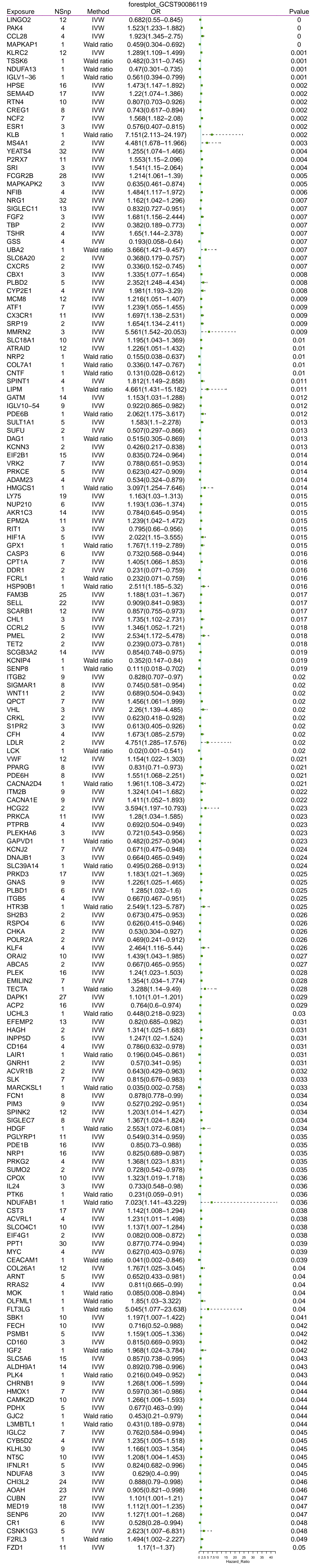


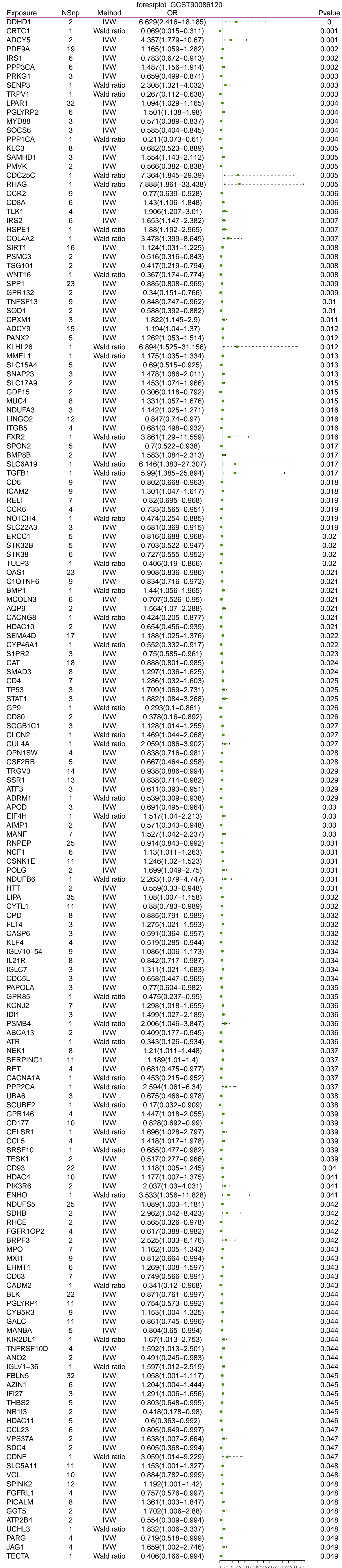
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Exposure	NSnp	Method	OR			Pvalue
NELFCD	16	IVW	0.722(0.623–0.837)			0
PCYT2	1	Wald ratio	4.898(2.017–11.891)			0
CBR3	19	IVW	0.768(0.656–0.899)			0.001
F2RL1	21	IVW	1.236(1.092–1.399)			0.001
ITPR3	21	IVW	0.772(0.664–0.897)			0.001
ABCA3	4	IVW	2.242(1.366–3.682)			0.001
GPX1	1	Wald ratio	0.22(0.093–0.52)			0.001
CTSH	15	IVW	0.751(0.624–0.903)			0.002
DUSP3	7	IVW	1.565(1.178–2.081)			0.002
TLR5	10	IVW	1.725(1.23–2.42)			0.002
BTN3A3	9	IVW	2.07(1.301–3.293)			0.002
CASP9	12	IVW	1.451(1.135–1.855)			0.003
SBK1	11	IVW	1.453(1.14–1.852)			0.003
GAK	5	IVW	0.345(0.172–0.694)			0.003
DHCR7	1	Wald ratio	0.033(0.004–0.302)			0.003
MAN2B1	14	IVW	0.848(0.759–0.947)			0.004
KCNC3	1	Wald ratio	4.153(1.592–10.838)			0.004
IGF2R	3	IVW	3.694(1.501–9.095)			0.004
BTLA	3	IVW	3.806(1.5–9.655)			0.005
SOD1	2	IVW	3.166(1.422–7.048)			0.005
DYRK2	2	IVW	0.133(0.032–0.547)			0.005
DDHD1	2	IVW	0.061(0.009–0.422)			0.005
NT5C2	13	IVW	0.735(0.591–0.914)			0.006
TBC1D1	7	IVW	1.597(1.142–2.231)			0.006
IKBKB	5	IVW	1.972(1.21–3.213)			0.006
POLD1	1	Wald ratio	6.731(1.745–25.971)			0.006
VASH1	26	IVW	1.163(1.042–1.298)			0.007
APEH	9	IVW	1.441(1.104–1.882)			0.007
SIK1	4	IVW	0.433(0.236–0.796)			0.007
PSENNEN	2	IVW	0.25(0.091–0.686)			0.007
PKN3	13	IVW	1.334(1.074–1.657)			0.009
TRPC3	5	IVW	1.557(1.118–2.168)			0.009
KCNA3	4	IVW	0.436(0.233–0.816)			0.009
DAG1	1	Wald ratio	4.039(1.42–11.488)			0.009
KCNS1	2	IVW	3.918(1.399–10.973)			0.009
TUSC2	1	Wald ratio	0.197(0.058–0.67)			0.009
ASL	6	IVW	1.671(1.133–2.467)			0.01
PDCD1	6	IVW	1.394(1.083–1.796)			0.01
EDAR	5	IVW	0.419(0.215–0.814)			0.01
COQ2	6	IVW	0.685(0.512–0.916)			0.011
CACNG6	4	IVW	2.005(1.171–3.432)			0.011
ACADSB	5	IVW	2.96(1.284–6.822)			0.011
MARK2	4	IVW	3.098(1.295–7.409)			0.011
ALDH3A2	7	IVW	1.687(1.124–2.533)			0.012
CYP2J2	4	IVW	1.962(1.163–3.311)			0.012
AXL	4	IVW	0.475(0.265–0.851)			0.012
CTSD	8	IVW	1.48(1.09–2.01)			0.012
FPGS	2	IVW	4.322(1.374–13.6)			0.012
SNAP29	20	IVW	0.85(0.749–0.966)			0.013
LILRA5	5	IVW	0.768(0.624–0.945)			0.013
GP9	1	Wald ratio	0.076(0.01–0.579)			0.013
DDR GK1	7	IVW	1.407(1.071–1.849)			0.014
PTPRN	4	IVW	1.417(1.073–1.872)			0.014
PLA2G7	10	IVW	0.825(0.706–0.962)			0.014
KCNK5	3	IVW	0.223(0.068–0.734)			0.014
EBI3	1	Wald ratio	0.053(0.005–0.554)			0.014
CSMD1	10	IVW	0.623(0.425–0.912)			0.015
CRMP1	3	IVW	0.378(0.173–0.825)			0.015
SERPINE1	3	IVW	0.295(0.11–0.791)			0.015
MGP	3	IVW	1.696(1.102–2.611)			0.016
ZNF697	6	IVW	1.666(1.101–2.522)			0.016
C2	5	IVW	1.716(1.107–2.66)			0.016
PRKCH	5	IVW	2.263(1.168–4.384)			0.016
IMPDH2	1	Wald ratio	0.167(0.039–0.714)			0.016
CYP20A1	1	Wald ratio	0.049(0.004–0.571)			0.016
PRPF4	3	IVW	0.502(0.285–0.884)			0.017
BOLA1	1	Wald ratio	0.43(0.214–0.862)			0.017
HSD17B1	4	IVW	1.663(1.09–2.536)			0.018
GADD45G	4	IVW	1.767(1.102–2.833)			0.018
KLHL25	1	Wald ratio	7.187(1.398–36.957)			0.018
IL10	3	IVW	0.542(0.324–0.905)			0.019
ICAM1	4	IVW	2.105(1.131–3.915)			0.019
CD81	6	IVW	1.465(1.062–2.021)			0.02
SP1	4	IVW	0.712(0.535–0.948)			0.02
CD40	18	IVW	0.795(0.654–0.966)			0.021
IL12RB1	14	IVW	1.271(1.037–1.558)			0.021
LTBP3	17	IVW	0.769(0.615–0.961)			0.021
CYP2D6	10	IVW	0.757(0.598–0.959)			0.021
C4A	7	IVW	0.835(0.717–0.973)			0.021
CXCR5	2	IVW	4.802(1.273–18.118)			0.021
CREBBP	1	Wald ratio	0.062(0.006–0.652)			0.021
GPR146	10	IVW	0.822(0.696–0.972)			0.022
AHRR	6	IVW	0.575(0.359–0.922)			0.022
COL10A1	2	IVW	2.237(1.122–4.463)			0.022
DEAF1	9	IVW	1.41(1.048–1.896)			0.023
TCF7L2	8	IVW	0.652(0.451–0.943)			0.023
PDCD4	8	IVW	0.649(0.447–0.942)			0.023
CACNG8	1	Wald ratio	0.311(0.114–0.85)			0.023
NEU1	2	IVW	0.489(0.264–0.904)			0.023
ERCC3	15	IVW	1.26(1.03–1.541)			0.024
GCH1	12	IVW	0.782(0.632–0.969)			0.024
TGFB2	1	Wald ratio	6.912(1.289–37.081)			0.024
OPRL1	13	IVW	0.821(0.691–0.975)			0.025
CPAMD8	8	IVW	0.741(0.569–0.963)			0.025
OAT	8	IVW	0.701(0.513–0.956)			0.025
CALU	7	IVW	1.842(1.078–3.146)			0.025
PREP	3	IVW	2.316(1.111–4.827)			0.025
FLT3	3	IVW	0.37(0.156–0.881)			0.025
PRKD2	13	IVW	0.788(0.639–0.972)			0.026
NDUFC1	2	IVW	0.615(0.401–0.942)			0.026
APOBEC3G	11	IVW	1.235(1.025–1.489)			0.027
GPR83	9	IVW	0.72(0.538–0.964)			0.027
RAMP1	7	IVW	0.723(0.542–0.963)			0.027
MTF1	1	Wald ratio	0.36(0.145–0.891)			0.027
SCNN1A	3	IVW	0.395(0.173–0.9)			0.027
CNR1	7	IVW	1.341(1.032–1.744)			0.028
ZNF565	3	IVW	2.056(1.08–3.912)			0.028
GDF7	2	IVW	0.552(0.326–0.937)			0.028
CD8B	1	Wald ratio	0.159(0.031–0.817)			0.028
EPHA10	1	Wald ratio	0.124(0.019–0.802)			0.028
BAZ2B	27	IVW	1.208(1.02–1.431)			0.029
MCL1	4	IVW	1.656(1.054–2.601)			0.029
ATG16L1	2	IVW	1.704(1.055–2.751)			0.029
MOCS1	3	IVW	0.538(0.308–0.94)			0.029
EMP1	4	IVW	1.866(1.068–3.262)			0.029
GAPVD1	1	Wald ratio	4.213(1.161–15.289)			0.029
RPS6KB2	10	IVW	1.303(1.026–1.653)			0.03
B4GALT1	10	IVW	0.681(0.481–0.963)			0.03
ADAMTS13	4	IVW	0.615(0.396–0.954)			0.03
CCNT1	2	IVW	1.975(1.068–3.651)			0.03
VEGFA	10	IVW	1.402(1.032–1.906)			0.031
SLC1A7	10	IVW	1.345(1.027–1.763)			0.031
RIPK4	4	IVW	0.559(0.33–0.948)			0.031
CD46	1	Wald ratio	4.862(1.152–20.52)			0.031
S100A9	6	IVW	0.731(0.549–0.974)			0.032
ZAP70	7	IVW	0.689(0.489–0.969)			0.032
GLIPR1L1	1	Wald ratio	0.323(0.115–0.908)			0.032
LAD1	1	Wald ratio	0.36(0.141–0.918)			0.032
PARD3B	3	IVW	0.62(0.4–0.962)			0.033
FLT4	3	IVW	0.649(0.436–0.965)			0.033
DBH	7	IVW	1.46(1.032–2.065)			0.033
CAD	4	IVW	0.597(0.371–0.961)			0.033
CTSB	16	IVW	0.81(0.666–0.984)			0.034
CLNK	1	Wald ratio	0.201(0.046–0.886)			0.034
ATP6V1B2	3	IVW	0.279(0.086–0.908)			0.034
NDFIP1	11	IVW	1.461(1.028–2.079)			0.035
WDR5	2	IVW	0.621(0.399–0.966)			0.035
MAP3K4	3	IVW	0.305(0.101–0.919)			0.035
NR3C1	2	IVW	3.773(1.095–12.998)			0.035
MARK3	14	IVW	0.725(0.537–0.979)			0.036
LYG1	8	IVW	0.819(0.68–0.987)			0.036
TBP	3	IVW	2.209(1.055–4.626)			0.036
AURKC	3	IVW	0.444(0.208–0.95)			0.036
CDC25A	1	Wald ratio	3.038(1.076–8.574)			0.036
PLXNB1	2	IVW	0.306(0.101–0.927)			0.036
SLC22A31	10	IVW	0.88(0.78–0.992)			0.037
P4HTM	3	IVW	0.738(0.555–0.982)			0.037
KLHL12	9	IVW	0.733(0.548–0.982)			0.037
STK33	7	IVW	0.675(0.467–0.976)			0.037
NTN4	1	Wald ratio	0.056(0.004–0.836)			0.037
CAMK1D	22	IVW	0.822(0.682–0.989)			0.038
PINK1	2	IVW	1.466(1.021–2.103)			0.038
C4BPB	8	IVW	0.702(0.503–0.982)			0.039
HCP5	5	IVW	0.705(0.505–0.983)			0.039
PMEL	2	IVW	0.405(0.172–0.956)			0.039
S1PR2	3	IVW	1.455(1.018–2.08)			0.04
LCN2	1	Wald ratio	1.664(1.024–2.704)			0.04
MASP2	1	Wald ratio	3.221(1.053–9.849)			0.04
SLC36A1	14	IVW	1.168(1.006–1.356)			0.042
MCM8	12	IVW	0.817(0.672–0.993)			0.042
SLC6A6	7	IVW	1.43(1.013–2.018)			0.042
CDK12	9	IVW	1.308(1.009–1.695)			0.042
NDUFA9	1	Wald ratio	1.826(1.021–3.265)			0.042
EPB41	3	IVW	2.273(1.032–5.007)			0.042
SV2A	1	Wald ratio	0.584(0.348–0.981)			0.042
JAG1	4	IVW	0.394(0.161–0.966)			0.042
MYB	1	Wald ratio	7.776(1.078–56.114)			0.042
MBTPS1	19	IVW	0.826(0.687–0.994)			0.043
ACO1	11	IVW	0.716(0.518–0.989)			0.043
PLIN2	14	IVW	0.825(0.684–0.994)			0.044
APH1B	15	IVW	0.808(0.657–0.994)			0.044
TEP1	4	IVW	0.65(0.428–0.988)			0.044
DNAH8	4	IVW	0.572(0.332–0.985)			0.044
PLOD1	12	IVW	0.842(0.711–0.996)			0.045
MMP15	2	IVW	3.442(1.027–11.538)			0.045
IGF2BP2	2	IVW	0.385(0.151–0.981)			0.045
TARDBP	1	Wald ratio	8.681(1.051–71.678)			0.045
SELL	21	IVW	1.154(1.003–1.329)			0.046
FZD6	17	IVW	1.222(1.004–1.489)			0.046
RNASE3	12	IVW	1.214(1.003–1.47)			0.046
SACM1L	17	IVW	0.795(0.634–0.996)			0.046
PMP22	10	IVW	0.736(0.545–0.994)			0.046
CA13	3	IVW	1.511(1.007–2.268)			0.046
SETBP1	3	IVW	0.401(0.164–0.982)			0.046
NUCB1	12	IVW	1.192(1.003–1.417)			

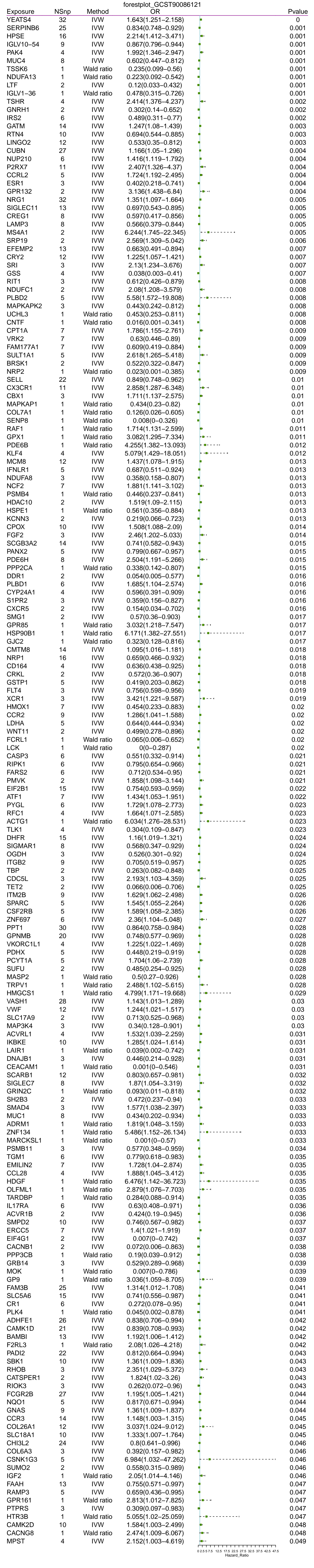
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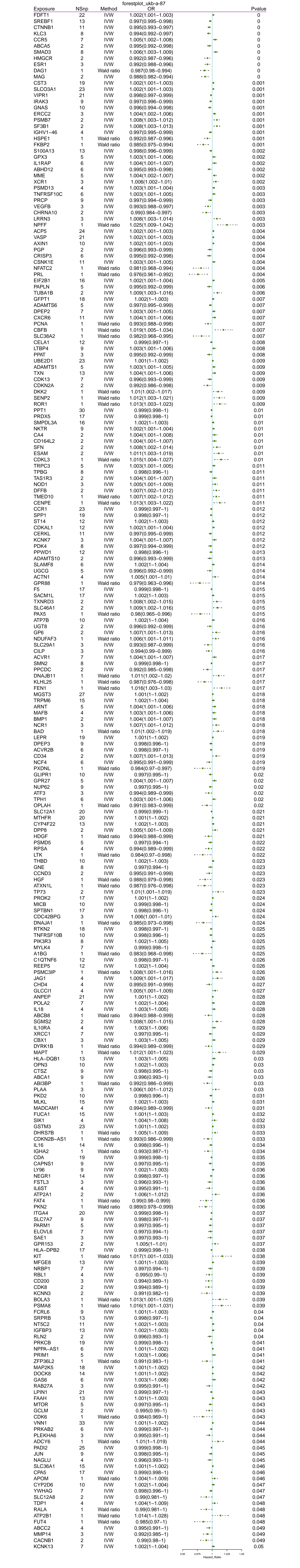
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Exposure	NSnp	Method	OR		Pvalue
SPP1	23	IVW	0.849(0.776–0.93)		0
SEMA4D	17	IVW	1.329(1.158–1.526)		0
CHRNA1	9	IVW	1.64(1.31–2.054)		0
CCL28	4	IVW	2.27(1.495–3.445)		0
PDE9A	19	IVW	1.178(1.072–1.295)		0.001
QPCT	7	IVW	1.683(1.222–2.317)		0.001
NCF2	7	IVW	1.652(1.231–2.217)		0.001
ESR1	3	IVW	0.51(0.337–0.773)		0.001
MAPKAP1	1	Wald ratio	0.293(0.144–0.594)		0.001
CRTC1	1	Wald ratio	0.075(0.016–0.345)		0.001
TNFSF13	9	IVW	0.817(0.721–0.926)		0.002
ITGB5	4	IVW	0.622(0.459–0.844)		0.002
ADCY5	2	IVW	4.141(1.719–9.97)		0.002
CDC25C	1	Wald ratio	8.479(2.161–33.26)		0.002
RHAG	1	Wald ratio	9.721(2.36–40.04)		0.002
LIPA	35	IVW	1.118(1.038–1.205)		0.003
IL18R1	12	IVW	0.816(0.713–0.934)		0.003
SPINK2	12	IVW	1.306(1.094–1.559)		0.003
HSD17B3	4	IVW	0.455(0.268–0.771)		0.003
PSMC3	2	IVW	0.523(0.342–0.8)		0.003
SENP3	1	Wald ratio	2.297(1.331–3.962)		0.003
MYD88	3	IVW	0.56(0.383–0.819)		0.003
DDHD1	2	IVW	5.288(1.743–16.044)		0.003
LINGO2	12	IVW	0.808(0.697–0.936)		0.004
KCNK7	3	IVW	1.561(1.15–2.118)		0.004
SNAP23	3	IVW	1.554(1.15–2.099)		0.004
S1PR2	3	IVW	0.706(0.559–0.892)		0.004
NFIB	4	IVW	1.907(1.215–2.992)		0.005
SOD1	2	IVW	0.563(0.378–0.838)		0.005
IGLV1–36	1	Wald ratio	0.372(0.186–0.743)		0.005
VWF	12	IVW	1.182(1.049–1.332)		0.006
ICAM2	9	IVW	1.412(1.106–1.804)		0.006
PPP3CA	6	IVW	1.435(1.107–1.861)		0.006
SDC4	2	IVW	0.506(0.31–0.826)		0.006
PPP1CA	1	Wald ratio	0.224(0.078–0.647)		0.006
KLHL26	1	Wald ratio	7.435(1.74–31.763)		0.007
NDUFA3	3	IVW	1.155(1.038–1.285)		0.008
DAPK2	9	IVW	0.663(0.49–0.896)		0.008
CACNA2D4	1	Wald ratio	4.233(1.452–12.339)		0.008
ADCY9	15	IVW	1.258(1.058–1.497)		0.009
KLHL30	9	IVW	1.352(1.079–1.694)		0.009
SERPING1	11	IVW	1.244(1.057–1.463)		0.009
IRS1	6	IVW	0.817(0.701–0.951)		0.009
CLCN2	1	Wald ratio	1.562(1.118–2.183)		0.009
UBA6	3	IVW	0.597(0.405–0.881)		0.009
VCL	10	IVW	0.85(0.752–0.962)		0.01
GDF15	2	IVW	0.318(0.132–0.764)		0.01
PGLYRP2	6	IVW	1.48(1.099–1.995)		0.01
SIRT1	16	IVW	1.131(1.029–1.244)		0.011
CCND2	6	IVW	0.639(0.452–0.903)		0.011
HMBS	10	IVW	1.202(1.042–1.386)		0.012
PAK4	4	IVW	1.41(1.078–1.843)		0.012
CSNK1E	11	IVW	1.264(1.052–1.518)		0.012
DAG1	1	Wald ratio	0.382(0.181–0.808)		0.012
WNT16	1	Wald ratio	0.387(0.185–0.809)		0.012
COL4A2	1	Wald ratio	3.151(1.29–7.695)		0.012
FXR2	1	Wald ratio	3.878(1.346–11.168)		0.012
EGLN1	5	IVW	0.753(0.602–0.941)		0.013
PRKG1	3	IVW	0.706(0.537–0.929)		0.013
ERCC1	5	IVW	0.82(0.7–0.961)		0.014
BMP2	2	IVW	1.383(1.067–1.794)		0.014
HMGCR	2	IVW	0.584(0.38–0.899)		0.014
BMP8B	2	IVW	1.596(1.099–2.317)		0.014
CXCR5	2	IVW	0.35(0.151–0.809)		0.014
TYMP	5	IVW	1.633(1.1–2.423)		0.015
MANBA	5	IVW	0.77(0.624–0.952)		0.015
BMP1	1	Wald ratio	1.458(1.077–1.974)		0.015
PICK1	16	IVW	0.854(0.751–0.972)		0.016
SLC22A3	3	IVW	0.587(0.38–0.907)		0.016
SMAD3	8	IVW	1.31(1.05–1.634)		0.017
RNPEP	25	IVW	0.904(0.832–0.982)		0.018
PGLYRP1	11	IVW	0.686(0.502–0.937)		0.018
YWHAG	7	IVW	0.776(0.629–0.957)		0.018
SAMHD1	3	IVW	1.44(1.064–1.949)		0.018
JAG1	4	IVW	1.963(1.125–3.427)		0.018
SCN4A	2	IVW	2.72(1.185–6.24)		0.018
CAT	18	IVW	0.882(0.794–0.979)		0.019
PPARG	8	IVW	0.752(0.593–0.955)		0.019
MAP2	2	IVW	0.31(0.116–0.827)		0.019
HRH4	2	IVW	3.595(1.235–10.464)		0.019
HDAC4	10	IVW	1.204(1.03–1.408)		0.02
CELSR1	1	Wald ratio	1.782(1.096–2.897)		0.02
STAT1	3	IVW	1.904(1.106–3.28)		0.02
SUMO1	2	IVW	3.093(1.199–7.984)		0.02
CYTL1	11	IVW	0.873(0.778–0.979)		0.021
CCR6	4	IVW	0.687(0.5–0.944)		0.021
IGLC7	3	IVW	1.331(1.044–1.698)		0.021
PTPN22	6	IVW	1.36(1.045–1.77)		0.022
FGF2	3	IVW	1.553(1.065–2.264)		0.022
ABCA13	2	IVW	0.379(0.166–0.87)		0.022
TSG101	2	IVW	0.476(0.251–0.905)		0.023
KCNIP4	1	Wald ratio	0.208(0.054–0.803)		0.023
POLI	18	IVW	0.862(0.759–0.981)		0.024
TM4SF1	4	IVW	1.515(1.055–2.176)		0.024
SUFU	2	IVW	0.341(0.134–0.87)		0.024
SLC39A14	1	Wald ratio	0.336(0.131–0.865)		0.024
ATF1	7	IVW	1.213(1.024–1.436)		0.025
PLGLB2	3	IVW	0.889(0.802–0.985)		0.025
NOTCH4	1	Wald ratio	0.52(0.292–0.925)		0.026
SOCS6	3	IVW	0.65(0.445–0.95)		0.026
HLA–G	5	IVW	1.135(1.014–1.27)		0.028
AQP9	2	IVW	1.525(1.048–2.218)		0.028
CUL4A	1	Wald ratio	2.035(1.079–3.835)		0.028
LAP3	27	IVW	0.916(0.846–0.991)		0.029
COL5A2	3	IVW	0.498(0.267–0.931)		0.029
MANF	7	IVW	1.61(1.049–2.473)		0.029
COL26A1	12	IVW	1.19(1.017–1.392)		0.03
ABCA5	2	IVW	0.504(0.272–0.935)		0.03
SPON2	5	IVW	0.694(0.498–0.966)		0.03
VHL	3	IVW	2.107(1.074–4.133)		0.03
GGT5	2	IVW	1.769(1.056–2.962)		0.03
CREG1	8	IVW	0.827(0.695–0.983)		0.031
MXI1	9	IVW	0.775(0.614–0.977)		0.031
TESK1	2	IVW	0.506(0.273–0.938)		0.031
PLXNC1	7	IVW	0.771(0.608–0.977)		0.032
OPN1SW	4	IVW	0.843(0.72–0.986)		0.032
PTK6	1	Wald ratio	0.051(0.003–0.771)		0.032
NCOA2	4	IVW	0.541(0.308–0.95)		0.032
OAS1	23	IVW	0.893(0.805–0.991)		0.033
TNFRSF10A	10	IVW	0.843(0.721–0.986)		0.033
DEPTOR	5	IVW	1.373(1.025–1.84)		0.033
CCNG1	1	Wald ratio	0.604(0.38–0.96)		0.033
CPXM1	3	IVW	1.637(1.038–2.582)		0.034
SBK1	10	IVW	1.196(1.013–1.413)		0.035
FSTL1	14	IVW	1.182(1.012–1.38)		0.035
MCOLN3	6	IVW	0.714(0.522–0.978)		0.036
CACNA1E	9	IVW	1.278(1.016–1.609)		0.036
PTPRC	3	IVW	0.648(0.432–0.972)		0.036
CDNF	1	Wald ratio	3.199(1.08–9.477)		0.036
UGDH	22	IVW	1.099(1.006–1.201)		0.037
ARG1	14	IVW	1.244(1.013–1.527)		0.037
NBL1	18	IVW	0.89(0.797–0.993)		0.037
MAK	14	IVW	1.202(1.011–1.43)		0.037
CD8A	6	IVW	1.304(1.016–1.673)		0.037
JAM3	6	IVW	1.464(1.023–2.094)		0.037
IMPA1	21	IVW	1.114(1.006–1.234)		0.038
POR	12	IVW	0.866(0.756–0.992)		0.038
KBTBD11	20	IVW	1.12(1.006–1.247)		0.038
SLC6A19	1	Wald ratio	4.278(1.083–16.896)		0.038
FKBP10	2	IVW	1.603(1.026–2.504)		0.038
LPAR1	32	IVW	1.072(1.003–1.145)		0.039
STK38	6	IVW	0.756(0.581–0.985)		0.039
PIK3CD	1	Wald ratio	2.589(1.048–6.396)		0.039
GALC	11	IVW	0.862(0.747–0.993)		0.04
NPC1	10	IVW	0.836(0.704–0.991)		0.04
PARG	4	IVW	0.71(0.512–0.984)		0.04
ATXN1L	1	Wald ratio	0.285(0.086–0.943)		0.04
AOAH	24	IVW	0.882(0.782–0.995)		0.041
ITGA2	10	IVW	1.244(1.009–1.535)		0.041
AZIN1	6	IVW	1.204(1.008–1.439)		0.041
PROC	2	IVW	1.666(1.022–2.716)		0.041
PSMD9	3	IVW	2.18(1.029–4.618)		0.042
STK32B	5	IVW	0.718(0.522–0.988)		0.042
CD80	2	IVW	0.415(0.178–0.967)		0.042
PICALM	8	IVW	1.345(1.01–1.792)		0.043
HIF1A	5	IVW	1.348(1.009–1.801)		0.043
ADCY6	1	Wald ratio	2.156(1.026–4.531)		0.043
EIF4G1	2	IVW	0.545(0.303–0.982)		0.043
CTF3	18	IVW	1.105(1.003–1.218)		0.044
THBS2	5	IVW	0.804(0.65–0.994)		0.044
ICOS	6	IVW	0.718(0.52–0.992)		0.045
NDUFS5	25	IVW	1.083(1.002–1.171)		0.046
SSR1	13	IVW	0.847(0.72–0.997)		0.046
NR2C1	6	IVW	1.315(1.005–1.72)		0.046
PTPRN	4	IVW	0.838(0.704–0.998)		0.047
C6orf120	10	IVW	0.837(0.702–0.998)		0.047
GAPVD1	1	Wald ratio	0.376(0.143–0.986)		0.047
ADAMTS14	2	IVW	2.834(1.013–7.925)		0.047
KLHL35	13	IVW	1.251(1.002–1.561)		0.048
SDC2	5	IVW	0.669(0.449–0.997)		0.048
DOCK8	16	IVW	0.91(0.828–1)		0.049
CXCR1	11	IVW	1.183(1–1.4)		0.049
CD4	7	IVW	1.3(1.001–1.687)		0.049
ITGA9	10	IVW	0.811(0.658–0.999)		0.049
CCR10	2	IVW	0.53(0.281–0.998)		0.049
GHRL	4	IVW	0.807(0.652–1)		0.05







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Exposure	NSnp	Method	OR		Pvalue	
SPP1	23	IVW	0.873(0.812–0.94)		0	
CHRNB1	9	IVW	1.319(1.152–1.511)		0	
LINGO2	12	IVW	0.8(0.707–0.906)		0	
PAK4	4	IVW	1.422(1.17–1.729)		0	
NCF2	7	IVW	1.554(1.234–1.956)		0	
CCL28	4	IVW	1.814(1.364–2.413)		0	
ESR1	3	IVW	0.553(0.408–0.75)		0	
MAPKAP1	1	Wald ratio	0.468(0.31–0.706)		0	
IGLV1–36	1	Wald ratio	0.558(0.412–0.756)		0	
VWF	12	IVW	1.163(1.062–1.274)		0.001	
SEMA4D	17	IVW	1.235(1.094–1.394)		0.001	
TNFSF13	9	IVW	0.827(0.74–0.924)		0.001	
KCNK7	3	IVW	1.503(1.182–1.91)		0.001	
QPCT	7	IVW	1.473(1.183–1.833)		0.001	
ITGB5	4	IVW	0.655(0.513–0.836)		0.001	
S1PR2	3	IVW	0.712(0.579–0.875)		0.001	
CDC25C	1	Wald ratio	8.706(2.325–32.606)		0.001	
RHAG	1	Wald ratio	8.892(2.4–32.952)		0.001	
PDE9A	19	IVW	1.136(1.049–1.231)		0.002	
IL18R1	12	IVW	0.857(0.776–0.946)		0.002	
MYD88	3	IVW	0.568(0.394–0.819)		0.002	
SERPINB6	25	IVW	0.912(0.858–0.97)		0.003	
LAMP3	8	IVW	0.668(0.51–0.873)		0.003	
CCND2	6	IVW	0.643(0.482–0.858)		0.003	
SOD1	2	IVW	0.565(0.388–0.824)		0.003	
CXCR5	2	IVW	0.375(0.195–0.72)		0.003	
IGLV10–54	9	IVW	0.92(0.868–0.974)		0.004	
CREG1	8	IVW	0.813(0.706–0.936)		0.004	
FGF2	3	IVW	1.55(1.146–2.096)		0.004	
SENP3	1	Wald ratio	2.084(1.259–3.449)		0.004	
UCHL3	1	Wald ratio	0.479(0.292–0.785)		0.004	
ADCY5	2	IVW	3.194(1.446–7.054)		0.004	
LIPA	35	IVW	1.089(1.027–1.156)		0.005	
VCL	10	IVW	0.858(0.77–0.956)		0.005	
SNAP23	3	IVW	1.446(1.119–1.869)		0.005	
SDC4	2	IVW	0.56(0.375–0.836)		0.005	
SPINK2	12	IVW	1.205(1.055–1.376)		0.006	
KLHL26	1	Wald ratio	6.337(1.692–23.73)		0.006	
ATF1	7	IVW	1.202(1.053–1.372)		0.007	
GATM	14	IVW	1.149(1.037–1.272)		0.008	
CRY2	12	IVW	1.163(1.041–1.299)		0.008	
SBK1	10	IVW	1.19(1.047–1.353)		0.008	
TGM1	6	IVW	0.826(0.717–0.951)		0.008	
DAG1	1	Wald ratio	0.5(0.3–0.834)		0.008	
PPP1CA	1	Wald ratio	0.244(0.086–0.697)		0.008	
POLI	18	IVW	0.872(0.786–0.966)		0.009	
KLHL30	9	IVW	1.193(1.045–1.362)		0.009	
NDUFA3	3	IVW	1.137(1.032–1.253)		0.009	
HLA–G	5	IVW	1.144(1.032–1.268)		0.01	
TSHR	4	IVW	1.562(1.11–2.198)		0.01	
PSMB4	1	Wald ratio	0.483(0.277–0.841)		0.01	
SELL	22	IVW	0.922(0.867–0.982)		0.011	
SERPING1	11	IVW	1.187(1.041–1.355)		0.011	
BMP2	2	IVW	1.336(1.068–1.672)		0.011	
SUFU	2	IVW	0.516(0.309–0.861)		0.011	
GPR132	2	IVW	2.213(1.202–4.073)		0.011	
SIGLEC11	13	IVW	0.888(0.81–0.974)		0.012	
JAM3	6	IVW	1.379(1.073–1.773)		0.012	
CSNK1E	11	IVW	1.232(1.045–1.451)		0.013	
SLC6A20	2	IVW	0.473(0.261–0.857)		0.013	
HMGCS1	1	Wald ratio	3.124(1.271–7.676)		0.013	
NUP210	6	IVW	1.181(1.034–1.35)		0.014	
IFNLR1	5	IVW	0.81(0.684–0.958)		0.014	
CRKL	2	IVW	0.666(0.481–0.923)		0.014	
HMGCR	2	IVW	0.65(0.462–0.915)		0.014	
BMP8B	2	IVW	1.562(1.094–2.23)		0.014	
GJC2	1	Wald ratio	0.421(0.212–0.837)		0.014	
PPP2CA	1	Wald ratio	0.388(0.183–0.824)		0.014	
UBA6	3	IVW	0.677(0.496–0.926)		0.015	
HMBS	10	IVW	1.14(1.025–1.268)		0.016	
GDF15	2	IVW	0.502(0.287–0.881)		0.016	
NCOA2	4	IVW	0.62(0.42–0.913)		0.016	
SCN4A	2	IVW	2.307(1.166–4.565)		0.016	
KCNIP4	1	Wald ratio	0.344(0.145–0.817)		0.016	
CUBN	27	IVW	1.094(1.016–1.178)		0.017	
CST3	18	IVW	1.107(1.018–1.204)		0.017	
TM4SF1	4	IVW	1.41(1.063–1.87)		0.017	
SRP19	2	IVW	1.535(1.08–2.182)		0.017	
CLCN2	1	Wald ratio	1.366(1.057–1.767)		0.017	
TNFRSF10A	10	IVW	0.85(0.743–0.973)		0.018	
PLXNC1	7	IVW	0.77(0.619–0.956)		0.018	
PTPRC	3	IVW	0.638(0.439–0.927)		0.018	
PIK3CD	1	Wald ratio	2.578(1.174–5.658)		0.018	
COL26A1	12	IVW	1.201(1.031–1.399)		0.019	
CASP3	6	IVW	0.853(0.748–0.974)		0.019	
HTR3B	1	Wald ratio	2.175(1.135–4.165)		0.019	
WNT16	1	Wald ratio	0.428(0.211–0.869)		0.019	
ARG1	14	IVW	1.231(1.033–1.467)		0.02	
CELSR1	1	Wald ratio	1.667(1.085–2.563)		0.02	
ABCA5	2	IVW	0.776(0.628–0.961)		0.02	
ICOS	6	IVW	0.708(0.529–0.948)		0.02	
SLC39A14	1	Wald ratio	0.485(0.263–0.892)		0.02	
CRTC1	1	Wald ratio	0.265(0.087–0.809)		0.02	
CACNA1E	9	IVW	1.251(1.035–1.512)		0.021	
GAPVD1	1	Wald ratio	0.48(0.257–0.897)		0.021	
CXCR1	11	IVW	1.156(1.021–1.308)		0.022	
HMOX1	7	IVW	0.834(0.714–0.974)		0.022	
SMAD3	8	IVW	1.261(1.034–1.537)		0.022	
IGF2	1	Wald ratio	1.867(1.094–3.186)		0.022	
MASP2	1	Wald ratio	0.543(0.322–0.914)		0.022	
FXR2	1	Wald ratio	2.872(1.163–7.095)		0.022	
AOAH	24	IVW	0.916(0.848–0.988)		0.023	
RAF1	1	Wald ratio	1.392(1.047–1.85)		0.023	
NBL1	18	IVW	0.9(0.821–0.986)		0.024	
HDAC4	10	IVW	1.171(1.021–1.343)		0.024	
SRI	3	IVW	1.33(1.037–1.704)		0.024	
GGT5	2	IVW	1.743(1.074–2.83)		0.024	
EIF4G1	2	IVW	0.515(0.289–0.916)		0.024	
SUMO1	2	IVW	2.467(1.123–5.418)		0.024	
GRIK4	14	IVW	0.896(0.814–0.986)		0.025	
IGLC7	3	IVW	1.297(1.033–1.628)		0.025	
CBX1	3	IVW	1.228(1.027–1.469)		0.025	
FCGR2B	28	IVW	1.072(1.008–1.139)		0.026	
VCP	8	IVW	1.164(1.018–1.331)		0.026	
ANGPT4	2	IVW	2.439(1.115–5.334)		0.026	
COL4A2	1	Wald ratio	2.55(1.119–5.812)		0.026	
MANBA	5	IVW	0.831(0.706–0.98)		0.027	
CD27	5	IVW	0.657(0.453–0.952)		0.027	
MAPKAPK2	3	IVW	0.727(0.548–0.965)		0.027	
EGLN1	5	IVW	0.773(0.614–0.973)		0.028	
CCNG1	1	Wald ratio	0.669(0.467–0.956)		0.028	
SLC22A3	3	IVW	0.64(0.43–0.953)		0.028	
HCAR3	15	IVW	0.892(0.806–0.988)		0.029	
NFIB	4	IVW	1.208(1.019–1.432)		0.029	
HDAC10	2	IVW	1.336(1.03–1.734)		0.029	
KLB	1	Wald ratio	2.632(1.103–6.278)		0.029	
TARDBP	1	Wald ratio	0.331(0.123–0.891)		0.029	
HLA–DQA1	7	IVW	0.884(0.791–0.988)		0.03	
PICK1	16	IVW	0.898(0.815–0.99)		0.03	
IMPA1	21	IVW	1.106(1.01–1.211)		0.03	
CYTL1	11	IVW	0.896(0.812–0.99)		0.03	
PTPRN	4	IVW	0.853(0.74–0.984)		0.03	
ERCC1	5	IVW	0.86(0.751–0.986)		0.03	
NR2C1	6	IVW	1.295(1.025–1.635)		0.03	
GHRL	4	IVW	0.821(0.687–0.981)		0.03	
IGLV7–46	3	IVW	1.118(1.011–1.236)		0.03	
CUL4A	1	Wald ratio	2.005(1.07–3.76)		0.03	
KLHL35	13	IVW	1.144(1.011–1.293)		0.032	
PRKCSH	2	IVW	1.552(1.038–2.32)		0.032	
PRL	1	Wald ratio	3.776(1.118–12.751)		0.032	
MAP2	2	IVW	0.476(0.24–0.943)		0.033	
EFEMP2	13	IVW	0.884(0.789–0.991)		0.034	
FHIT	11	IVW	0.889(0.797–0.991)		0.034	
PPARG	8	IVW	0.862(0.752–0.989)		0.034	
KCNN3	2	IVW	0.487(0.25–0.949)		0.034	
PSMD9	3	IVW	2.088(1.053–4.14)		0.035	
MOK	1	Wald ratio	0.378(0.153–0.935)		0.035	
OGDH	3	IVW	0.697(0.499–0.974)		0.035	
COL7A1	1	Wald ratio	0.45(0.214–0.945)		0.035	
CDNF	1	Wald ratio	2.996(1.082–8.298)		0.035	
NPC1	10	IVW	0.862(0.751–0.99)		0.036	
TESK1	2	IVW	0.544(0.308–0.961)		0.036	
SMPD2	10	IVW	0.882(0.785–0.992)		0.037	
STAT1	3	IVW	1.64(1.03–2.612)		0.037	
YWHAG	7	IVW	0.861(0.748–0.992)		0.038	
SH2B3	2	IVW	0.799(0.646–0.988)		0.038	
TUBA4A	1	Wald ratio	2.065(1.04–4.099)		0.038	
RNPEP	25	IVW	0.931(0.869–0.996)		0.039	
OPN1SW	4	IVW	0.849(0.727–0.992)		0.039	
SUMO2	2	IVW	0.78(0.616–0.988)		0.039	
RTN4	10	IVW	0.849(0.726–0.993)		0.04	
FLT4	3	IVW	0.813(0.668–0.99)		0.04	
AQP9	2	IVW	1.461(1.017–2.099)		0.04	
ADRM1	1	Wald ratio	1.767(1.026–3.043)		0.04	
TP53	3	IVW	1.585(1.021–2.46)		0.04	
PPIF	2	IVW	1.353(1.012–1.81)		0.041	
CYP24A1	4	IVW	0.761(0.585–0.989)		0.041	
ADCY6	1	Wald ratio	2.106(1.031–4.303)		0.041	
HLA–DQB1	8	IVW	0.908(0.828–0.997)		0.042	
GPM6A	16	IVW	1.137(1.005–1.286)		0.042	
KBTBD11	20	IVW	1.095(1.003–1.196)		0.042	
FCRL1	1	Wald ratio	0.374(0.145–0.963)		0.042	
PCYT1A	5	IVW	1.258(1.008–1.57)		0.042	
CXCL9	1	Wald ratio	1.496(1.016–2.205)		0.042	
FREM1	1	Wald ratio	0.333(0.115–0.96)		0.042	
CAT	18	IVW	0.917(0.842–0.998)		0.044	
CMTM8	14	IVW	1.058(1.001–1.118)		0.044	
OLFML1	1	Wald ratio	1.82(1.017–3.258)		0.044	
ITGA9	10	IVW	0.85(0.725–0.996)		0.045	
LY75	19	IVW	1.092(1.001–1.19)		0.046	
SLC18A1	10	IVW	1.13(1.002–1.274)		0.046	
CPT1A	7	IVW	1.254(1.004–1.565)		0.046	
BMP1	1	Wald ratio	1.265(1.004–1.595)		0.046	
CD160	3	IVW	0.828(0.688–0.997)		0.046	
ABCA13	2	IVW	0.511(0.264–0.989)		0.046	
EP300	8	IVW	1.179(1.002–1.386)		0.04	



Exposure	NSnp	Method	forestplot_ukb-b-12141 OR	Pvalue
PPIL3	9	IVW	0.998(0.997–0.999)	0
FDFT1	12	IVW	0.998(0.997–0.999)	0
GFPT1	5	IVW	0.998(0.996–0.999)	0
TNFRSF10B	7	IVW	1.003(1.001–1.004)	0
CPT1A	4	IVW	0.997(0.995–0.998)	0
CTNNB1	4	IVW	1.005(1.002–1.008)	0
RPS6KA5	6	IVW	1.005(1.002–1.008)	0
KLC3	7	IVW	1.004(1.002–1.006)	0
SMAD3	5	IVW	0.994(0.992–0.997)	0
HMGCR	1	Wald ratio	1.009(1.005–1.013)	0
EEF2	1	Wald ratio	1.011(1.005–1.017)	0
ESR1	2	IVW	1.01(1.006–1.015)	0
HLA-DPB2	7	IVW	1.002(1.001–1.003)	0.001
IGFBP3	6	IVW	1.003(1.001–1.004)	0.001
GNAS	7	IVW	1.003(1.001–1.005)	0.001
LST1	3	IVW	1.003(1.001–1.005)	0.001
PCNA	1	Wald ratio	1.007(1.003–1.012)	0.001
XCR1	3	IVW	0.994(0.991–0.998)	0.001
KLHL2	1	Wald ratio	0.99(0.984–0.996)	0.001
KLHL25	1	Wald ratio	1.017(1.007–1.027)	0.001
BTN3A2	9	IVW	0.999(0.998–1)	0.002
IL18R1	8	IVW	1.002(1.001–1.003)	0.002
UGT8	2	IVW	1.005(1.002–1.008)	0.002
DAG1	1	Wald ratio	1.01(1.003–1.016)	0.002
NPFF	1	Wald ratio	0.978(0.965–0.992)	0.002
GPR88	1	Wald ratio	1.023(1.008–1.038)	0.002
EIF2B1	6	IVW	0.998(0.996–0.999)	0.003
NPPA-AS1	6	IVW	0.999(0.998–1)	0.003
NOD1	2	IVW	0.994(0.991–0.998)	0.003
NCF4	5	IVW	1.006(1.002–1.01)	0.003
SPP1	10	IVW	1.002(1.001–1.004)	0.004
GALK1	4	IVW	0.997(0.994–0.999)	0.004
ITIH3	2	IVW	0.994(0.989–0.998)	0.004
CDC42BPA	3	IVW	0.995(0.992–0.998)	0.004
CD34	2	IVW	0.992(0.987–0.998)	0.004
NEU1	2	IVW	0.995(0.991–0.998)	0.004
APLF	1	Wald ratio	1.011(1.004–1.019)	0.004
PPT1	16	IVW	1.002(1–1.003)	0.005
NME1	6	IVW	0.998(0.997–1)	0.005
PSMD13	2	IVW	0.998(0.996–0.999)	0.005
REEP5	5	IVW	0.998(0.996–0.999)	0.005
TRPV5	5	IVW	0.999(0.998–1)	0.005
PGP	1	Wald ratio	1.003(1.001–1.006)	0.005
XRCC1	3	IVW	1.003(1.001–1.005)	0.005
SFN	2	IVW	0.993(0.988–0.998)	0.005
APOM	1	Wald ratio	0.995(0.991–0.998)	0.005
NFKBIL1	1	Wald ratio	1.01(1.003–1.016)	0.005
ITPKC	1	Wald ratio	1.008(1.002–1.014)	0.005
PIP4K2B	1	Wald ratio	1.009(1.003–1.015)	0.005
CDC42BPG	2	IVW	0.993(0.988–0.998)	0.005
ATXN1L	1	Wald ratio	1.014(1.004–1.024)	0.005
PAX5	1	Wald ratio	1.02(1.006–1.035)	0.005
ST14	9	IVW	0.998(0.997–0.999)	0.006
FAAH	7	IVW	0.998(0.997–0.999)	0.006
PRKAB2	4	IVW	1.002(1–1.003)	0.006
MAP3K12	1	Wald ratio	0.994(0.991–0.998)	0.006
RAD21	7	IVW	0.998(0.996–0.999)	0.007
SPTBN1	10	IVW	1.002(1.001–1.004)	0.007
TNFSF8	5	IVW	0.998(0.996–0.999)	0.007
ADAMTS10	2	IVW	1.004(1.001–1.006)	0.007
CHD4	3	IVW	1.007(1.002–1.013)	0.007
MAG	1	Wald ratio	1.008(1.002–1.015)	0.007
CES4A	1	Wald ratio	1.008(1.002–1.014)	0.007
CENPE	1	Wald ratio	1.012(1.003–1.02)	0.007
MYLK4	5	IVW	1.001(1–1.002)	0.008
ABCA5	2	IVW	1.003(1.001–1.006)	0.008
TNXB	4	IVW	0.999(0.998–1)	0.008
ABHD12	2	IVW	1.004(1.001–1.007)	0.008
NFATC2	1	Wald ratio	1.016(1.004–1.027)	0.008
IL1RAP	6	IVW	0.997(0.995–0.999)	0.009
BMP8A	4	IVW	0.998(0.996–0.999)	0.009
FBXW7	1	Wald ratio	1.008(1.002–1.014)	0.009
AURKA	2	IVW	0.988(0.979–0.997)	0.009
PAX8	8	IVW	1.002(1–1.003)	0.01
PXDN	9	IVW	1.001(1–1.002)	0.01
NKTR	4	IVW	0.997(0.996–0.999)	0.01
CX3CR1	7	IVW	0.998(0.996–0.999)	0.01
PRLR	3	IVW	0.996(0.993–0.999)	0.01
CBX1	3	IVW	0.997(0.995–0.999)	0.01
IGF2	2	IVW	0.993(0.988–0.998)	0.01
ESAM	1	Wald ratio	0.989(0.98–0.997)	0.01
TP73	2	IVW	0.99(0.983–0.998)	0.01
PTCH1	5	IVW	1.002(1–1.004)	0.011
ADAMTS1	4	IVW	0.997(0.996–0.999)	0.011
RBL1	2	IVW	1.005(1.001–1.009)	0.011
VASP	3	IVW	0.998(0.997–1)	0.012
POLI	5	IVW	0.998(0.996–1)	0.012
SREBF1	4	IVW	1.002(1–1.004)	0.012
CYB5R1	5	IVW	0.998(0.996–1)	0.012
PIEZO1	9	IVW	0.998(0.997–1)	0.012
SECTM1	2	IVW	1.005(1.001–1.009)	0.012
CLU	1	Wald ratio	1.01(1.002–1.017)	0.012
HLA-DQB1	5	IVW	0.998(0.996–1)	0.013
ITGA4	6	IVW	1.001(1–1.002)	0.013
SEMA4D	8	IVW	0.998(0.997–1)	0.013
DPEP3	3	IVW	1.002(1–1.004)	0.013
MAFB	2	IVW	0.997(0.994–0.999)	0.013
MME	4	IVW	0.996(0.994–0.999)	0.013
PRL	1	Wald ratio	0.982(0.969–0.996)	0.013
CTSH	8	IVW	0.999(0.997–1)	0.014
CTSB	5	IVW	1.002(1–1.003)	0.014
ACVR2B	4	IVW	1.002(1–1.003)	0.014
SLC17A9	5	IVW	1.003(1.001–1.005)	0.014
APOD	2	IVW	0.996(0.992–0.999)	0.014
SLC38A2	1	Wald ratio	1.015(1.003–1.027)	0.014
KCNK7	3	IVW	0.997(0.994–0.999)	0.015
CLOCK	4	IVW	1.002(1–1.004)	0.016
CXCR6	7	IVW	0.997(0.995–0.999)	0.016
PSMB7	1	Wald ratio	0.991(0.984–0.998)	0.016
ADORA2A	2	IVW	0.996(0.992–0.999)	0.016
WNT16	1	Wald ratio	1.01(1.002–1.018)	0.016
ADCY6	1	Wald ratio	1.01(1.002–1.018)	0.016
AXIN1	2	IVW	0.998(0.997–1)	0.017
NR1D1	3	IVW	1.004(1.001–1.008)	0.017
SF3B1	2	IVW	1.005(1.001–1.009)	0.017
CCR1	8	IVW	1.002(1–1.004)	0.018
GPX3	5	IVW	0.998(0.996–1)	0.018
ZNF565	3	IVW	1.003(1.001–1.006)	0.018
PRRT3	5	IVW	1.005(1.001–1.009)	0.018
IGHV1–46	2	IVW	1.002(1–1.004)	0.018
HSPE1	1	Wald ratio	1.005(1.001–1.009)	0.018
PLAA	3	IVW	0.994(0.989–0.999)	0.018
VIPR1	5	IVW	1.002(1–1.003)	0.019
PLGLB2	3	IVW	0.999(0.998–1)	0.019
JUN	8	IVW	1.002(1–1.004)	0.019
TWSG1	3	IVW	1.004(1.001–1.007)	0.019
CDK8	2	IVW	0.995(0.99–0.999)	0.019
UBC	1	Wald ratio	1.014(1.002–1.026)	0.019
GGT5	2	IVW	0.993(0.988–0.999)	0.02
RLN2	1	Wald ratio	0.995(0.992–0.999)	0.02
BLM	10	IVW	0.999(0.998–1)	0.021
LRPAP1	7	IVW	1.002(1–1.004)	0.021
PLA2G15	2	IVW	0.993(0.987–0.999)	0.021
NDUFA6	4	IVW	1.002(1–1.004)	0.022
LY9	3	IVW	0.997(0.995–1)	0.022
PDGFC	4	IVW	0.997(0.994–1)	0.022
ITPKB	3	IVW	0.995(0.992–0.999)	0.022
IGKV3D–15	1	Wald ratio	0.997(0.994–1)	0.022
HLA-C	5	IVW	1.001(1–1.002)	0.023
CAPN1	5	IVW	1.001(1–1.003)	0.023
SACM1L	6	IVW	0.998(0.997–1)	0.023
ERCC2	2	IVW	0.998(0.996–1)	0.023
PDE6B	1	Wald ratio	0.997(0.994–1)	0.023
ADORA2A–AS1	1	Wald ratio	0.99(0.981–0.999)	0.023
SCUBE3	1	Wald ratio	1.015(1.002–1.029)	0.023
F5	6	IVW	1.001(1–1.002)	0.024
THRA	4	IVW	1.002(1–1.004)	0.024
CDKAL1	6	IVW	0.997(0.995–1)	0.024
TXN	8	IVW	0.997(0.995–1)	0.024
FBN1	1	Wald ratio	0.997(0.994–1)	0.024
COL15A1	1	Wald ratio	0.993(0.986–0.999)	0.024
GAK	1	Wald ratio	0.984(0.97–0.998)	0.024
DHFR	11	IVW	0.999(0.999–1)	0.025
PROS1	3	IVW	0.997(0.995–1)	0.025
DFFB	2	IVW	0.995(0.99–0.999)	0.025
FKBP2	1	Wald ratio	1.01(1.001–1.018)	0.025
MLX	2	IVW	0.996(0.992–0.999)	0.026
ADAM12	4	IVW	1.003(1–1.006)	0.026
CHSY1	5	IVW	0.999(0.997–1)	0.027
EDEM2	4	IVW	1.002(1–1.004)	0.027
CD164L2	1	Wald ratio	0.997(0.994–1)	0.027
MYH7B	4	IVW	0.996(0.992–1)	0.027
STK38	4	IVW	0.996(0.992–1)	0.027
SIAH1	1	Wald ratio	1.005(1.001–1.01)	0.027
MS4A1	1	Wald ratio	1.013(1.001–1.024)	0.027
NT5C2	6	IVW	0.999(0.997–1)	0.028
HIPK3	1	Wald ratio	1.006(1.001–1.011)	0.028
BMPR1A	1	Wald ratio	1.004(1–1.007)	0.028
GPR162	7	IVW	0.999(0.998–1)	0.029
SLAMF8	5	IVW	0.998(0.997–1)	0.029
HSD17B1	2	IVW	1.003(1–1.006)	0.029
GTF2B	1	Wald ratio	0.995(0.991–1)	0.029
PIK3R6	1	Wald ratio	1.01(1.001–1.018)	0.029
PINK1	2	IVW	1.002(1–1.004)	0.03
PSMB6	2	IVW	0.993(0.988–0.999)	0.03
ZFP36L2	1	Wald ratio	1.008(1.001–1.015)	0.03
BOLA3	1	Wald ratio	0.988(0.978–0.999)	0.03
COCH	6	IVW	0.998(0.997–1)	0.031
IRAK3	4	IVW	1.002(1–1.003)	0.031
PMM2	6	IVW	0.998(0.996–1)	0.031
STK11	5	IVW	1.002(1–1.004)	0.031
INSL3	8	IVW	1.001(1–1.003)	0.031
PAK1	6	IVW	0.998(0.996–1)	0.031
C2	4	IVW	1.003(1–1.005)	0.031
PPCDC	2	IVW	1.007(1.001–1.013)	0.031
CCR10	1	Wald ratio	1.012(1.001–1.023)	0.031
HSPA4	6	IVW	1.002(1–1.003)	0.032
IGLV3–16	3	IVW	1.001(1–1.003)	0.032
CPXM1	2	IVW	1.006(1.001–1.012)	0.032
LTBP1	2	IVW	1.01(1.001–1.019)	0.032
PODNL1	1	Wald ratio	0.99(0.981–0.999)	0.032
MGST3	13	IVW	0.999(0.998–1)	0.033
MTHFR	12	IVW	0.999(0.998–1)	0.033
PCSK5	15	IVW	0.998(0.997–1)	0.033
ATG5	1	Wald ratio	1.012(1.001–1.023)	0.033
MGP	3	IVW	1.003(1–1.005)	0.034
ROR1	1	Wald ratio	0.991(0.982–0.999)	0.034
GRIK4	7	IVW	1.001(1–1.003)	0.035
PML	5	IVW	1.002(1–1.005)	0.035
TPH1	5	IVW	0.997(0.995–1)	0.035
LGALS8	5	IVW	1.002(1–1.004)	0.036
CD14	5	IVW	1.002(1–1.003)	0.036
MAP3K6	6	IVW	1.003(1–1.005)	0.036
THBS2	3	IVW	0.996(0.993–1)	0.036
NAGLU	2	IVW	1.005(1–1.009)	0.037
TRPV6	1	Wald ratio	0.995(0.99–1)	0.037
TAS1R3	1	Wald ratio	1.003(1–1.006)	0.037
RB1	1	Wald ratio	1.004(1–1.007)	0.037
GCLM	2	IVW	1.005(1–1.009)	0.037
SLC5A10	2	IVW	1.007(1–1.013)	0.037
CCR3	8	IVW	0.999(0.997–1)	0.038
CELA1	5	IVW	1.001(1–1.003)	0.038
STX4	4	IVW	1.002(1–1.004)	0.038
TSPYL1	5	IVW	0.997(0.995–1)	0.038
CTNNA2	2	IVW	1.003(1–1.006)	0.038
GPI	1	Wald ratio	0.991(0.982–0.999)	0.038
CDK10	10	IVW	1.001(1–1.002)	0.039
BCL2L11	4	IVW	1.005(1–1.009)	0.039
GLIPR1L1	1	Wald ratio	0.994(0	

