

## SUPPLEMENTARY TABLES

**Supplementary Table 4. Results of Univariate Cox regression of IRGP with higher variation. (P<0.005).**

<b>IRGP</b>	<b>HR</b>	<b>HR.95L</b>	<b>HR.95H</b>	<b>coxPvalue</b>
FCER1G NDRG1	0.27639592	0.12554102	0.60852383	0.00140533
HLA-DQB1 STC2	0.23444675	0.09967148	0.55146446	0.0008881
APOBEC3G GAL	0.33497266	0.1591734	0.70493365	0.0039641
FABP4 GAL	0.23429033	0.09975861	0.55024781	0.00086442
OASL GAL	0.33794111	0.1617213	0.70617906	0.00391252
APOD CCL2	3.03038955	1.43686979	6.39115728	0.00359138
TFRC ANGPTL2	3.63343365	1.69767116	7.77644128	0.00088986
TFRC TNFRSF21	3.00990706	1.42652227	6.35078797	0.00382254
F2R SEMA3B	0.32349419	0.15533762	0.67368412	0.00256725
F2R ANGPTL4	0.29288792	0.13270808	0.64640626	0.00236392
CCL5 SEMA3B	0.2096095	0.07978568	0.55067705	0.0015214
WNT5A GAL	0.28471691	0.13684325	0.59238377	0.00077754
HMOX1 FOS	0.32346229	0.15451936	0.67711811	0.00274979
HCK SEMA5A	0.28401534	0.12572024	0.64162071	0.00246845
HCK PLXNB1	0.27935222	0.12343848	0.63219887	0.00221056
HCK GAL	0.28460063	0.13388452	0.60498048	0.00109025
HCK STC1	0.20276464	0.07029161	0.58489914	0.00315527
RAC3 FGFRL1	7.15301218	2.12340384	24.0960209	0.00149745
SEMA3A SEMA4D	0.33542642	0.16001111	0.70314419	0.00382089
SEMA3A GAL	0.22876178	0.10756573	0.48651139	0.00012742
SEMA3A TNFRSF11B	0.31504209	0.1457478	0.68098126	0.003315
SEMA3B LTBP4	3.63638195	1.74042023	7.59774764	0.00059502
SEMA3B VEGFC	2.95306523	1.3886214	6.28003733	0.00491149
SEMA3B C3AR1	3.7431678	1.51781114	9.2312573	0.00415712
SEMA3B FGFRL1	4.25029395	1.96251825	9.20500926	0.00024253
SEMA5A C5AR1	3.93004313	1.59685975	9.67225772	0.00289627
C5AR1 PLXNB1	0.26887173	0.10918511	0.66210498	0.00428033
EDNRA STC2	0.22184761	0.10620662	0.46340204	6.16E-05
PLXNB1 VEGFC	2.88263163	1.38280123	6.009226	0.00473213
PLXNB1 FGFRL1	3.23045085	1.51805887	6.87444531	0.00233969
IGF2 PDGFD	0.33598457	0.1612484	0.7000729	0.00359188
ANGPTL2 SORT1	0.2760354	0.13008073	0.5857558	0.00079861

**Supplementary Table 5. Clinical information of patients in the GSE78220 data set.**

<b>ID</b>	<b>Gender</b>	<b>Age</b>	<b>OS</b>	<b>Status</b>	<b>Response</b>
GSM2069823	F	66	607	DEAD	progressive
GSM2069824	M	55	927	ALIVE	Partial
GSM2069825	M	62	948	ALIVE	Partial
GSM2069826	M	61	439	ALIVE	Partial
GSM2069827	M	51	882	ALIVE	Partial
GSM2069828	F	55	662	DEAD	progressive
GSM2069829	M	69	NA	NA	Complete
GSM2069830	M	68	1054	ALIVE	Complete
GSM2069831	M	60	387	ALIVE	progressive
GSM2069832	M	59	327	DEAD	progressive
GSM2069833	F	53	917	ALIVE	Complete
GSM2069834	F	27	54	ALIVE	progressive
GSM2069835	M	70	980	DEAD	Partial
GSM2069836	M	19	186	DEAD	progressive
GSM2069837	M	45	1060	ALIVE	Partial
GSM2069838	F	63	337	DEAD	progressive
GSM2069839	M	55	182	DEAD	progressive
GSM2069840	M	63	103	DEAD	progressive
GSM2069841	M	74	262	DEAD	progressive
GSM2069842	M	83	548	ALIVE	Complete
GSM2069843	M	83	548	ALIVE	Complete
GSM2069844	M	82	439	DEAD	Partial
GSM2069845	M	84	269	DEAD	progressive
GSM2069846	M	47	704	ALIVE	progressive
GSM2069847	M	47	171	DEAD	progressive
GSM2069848	F	65	427	ALIVE	Partial
GSM2069849	F	70	364	ALIVE	Partial
GSM2069850	F	57	448	ALIVE	Partial