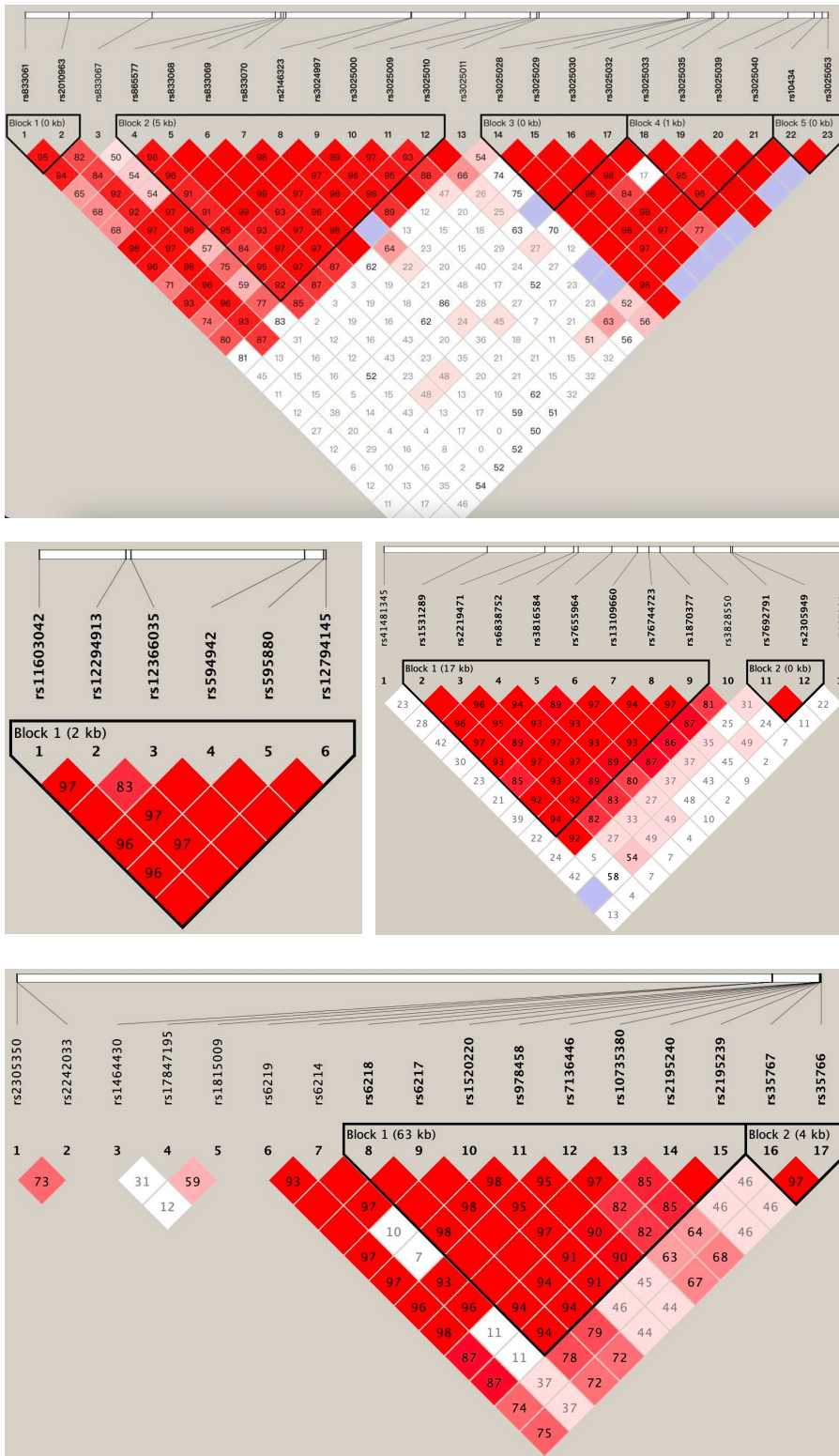


Supplementary table 1 the basic information of 7 genes

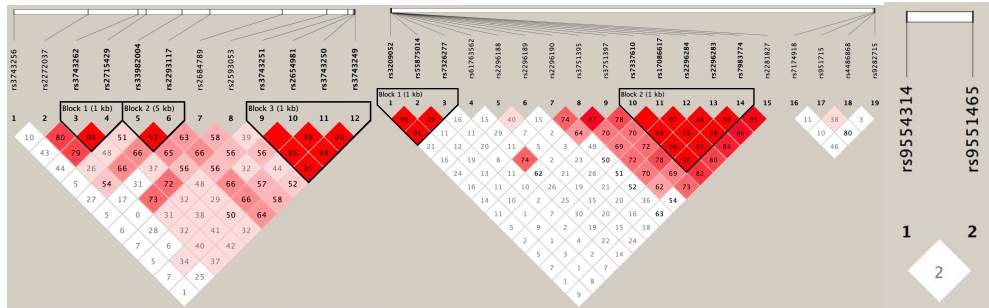
Gene	SNP ID	Position	Gene region	HWE	Freq_Alt (1000g)	Alleles
VEGFA (n=23)	rs3025000	43753051	UTR3	0.123	0.652	C/T
	rs3025035	43747623	intronic	0.055	0.660	C/T
	rs3024997	43750556	intronic	0.129	0.674	G/A
	rs2010963	43750587	intronic	0.124	0.283	C/G
	rs3025039	43751075	intronic	0.676	0.121	C/T
	rs833068	43739989	intronic	0.204	0.062	G/A
	rs833069	43737805	upstream	0.165	0.328	T/C
	rs3025040	43742419	intronic	0.532	0.235	C/T
	rs3025011	43745095	intronic	0.337	0.406	A/T
	rs3025029	43747371	intronic	0.410	0.570	G/A
	rs3025030	43738977	exonic	0.420	0.352	G/C
	rs3025033	43748357	intronic	0.835	0.058	A/G
	rs833067	43753325	UTR3	0.061	0.059	C/T
	rs865577	43747577	intronic	0.599	0.138	G/C
	rs2146323	43747450	intronic	0.739	0.139	C/A
	rs3025053	43737794	upstream	0.256	0.134	G/A
	rs833070	43751037	intronic	0.736	0.151	T/C
	rs3025010	43753051	UTR3	0.642	0.087	T/C
	rs3025009	43747623	intronic	0.441	0.630	G/A
	rs10434	43750556	intronic	0.692	0.659	A/G
	rs3025028	43750587	intronic	0.585	0.381	C/G
	rs833061	43751075	intronic	0.879	0.419	C/T
	rs3025032	43737805	upstream	1	0.388	T/C
VEGFB (n=6)	rs12294913	64004643	intronic	0.791	0.203	C/G
	rs594942	64006292	UTR3	0.449	0.712	T/C
	rs595880	64006466	UTR3	0.449	0.712	T/G
	rs11603042	64003843	intronic	0.645	0.237	G/T
	rs12794145	64006484	UTR3	0.355	0.156	C/T
rs12366035	64004692	exonic	0.551	0.172	C/T	

KDR (n=13)	rs13109660	55970680	intronic	0.867	0.291	G/A
	rs1531289	55955232	intronic	0.580	0.679	T/C
	rs1870377	55972974	exonic	0.897	0.212	T/A
	rs2219471	55961159	intronic	0.447	0.220	T/C
	rs2305949	55980456	intronic	0.217	0.146	C/T
	rs3816584	55964565	intronic	1	0.215	A/G
	rs3828550	55976451	intronic	0.745	0.318	G/A
	rs41481345	55944618	UTR3	0.602	0.103	T/G
	rs6838752	55964101	intronic	0.897	0.215	T/C
	rs7655964	55968053	intronic	1	0.293	A/C
	rs7667298	55991731	UTR5	0.069	0.499	T/C
	rs76744723	55971846	intronic	0.617	0.343	G/T
	rs7692791	55980239	intronic	0.278	0.544	C/T
FLT-1 (n=17)	rs17086617	28962686	UTR3	0.793	0.284	T/C
	rs2281827	29001721	intronic	0.535	0.236	C/T
	rs2296188	28893484	intronic	0.316	0.649	T/C
	rs2296189	28893642	exonic	0.205	0.243	A/G
	rs2296190	28895524	intronic	0.579	0.095	G/C
	rs2296283	28963702	UTR3	1	0.402	G/A
	rs2296284	28963676	UTR3	1	0.277	G/A
	rs3209052	28874695	UTR3	0.567	0.239	T/C
	rs3751395	28958955	intronic	0.782	0.598	C/T
	rs3751397	28960593	UTR3	0.514	0.414	T/A
	rs55875014	28875434	UTR3	0.165	0.235	G/C
	rs61763562	28886388	intronic	0.642	0.084	A/G
	rs7326277	28876214	UTR3	0.263	0.261	T/C
	rs7337610	28962666	UTR3	0.700	0.486	T/C
	rs7983774	28964325	intronic	0.355	0.279	G/A
	rs9551465	28962757	UTR3	0.245	0.400	A/T
	rs9554314	28875789	UTR3	0.211	0.239	A/C
IGF-1 (n=12)	rs10735380	102844236	intronic	0.177	0.782	G/A
	rs1520220	102796522	intronic	1	0.681	G/C

	rs2195239	102856702	intronic	0.795	0.322	C/G
	rs2195240	102856647	intronic	0.795	0.304	A/G
	rs35766	102880473	intergenic	0.354	0.660	C/T
	rs35767	102875569	intergenic	0.233	0.696	A/G
	rs6214	102793569	UTR3	1	0.427	C/T
	rs6217	102793786	UTR3	0.370	0.083	A/C
	rs6218	102793633	UTR3	0.369	0.082	A/G
	rs6219	102790192	UTR3	0.078	0.099	C/T
	rs7136446	102838515	intronic	0.170	0.724	C/T
	rs978458	102802239	intronic	0.898	0.658	T/C
IGF-1R	rs1464430	99467934	intronic	1	0.403	A/C
(n=19)	rs17847195	99492061	intronic	0.743	0.202	G/A
	rs1815009	99504671	UTR3	0.255	0.590	C/T
	rs2272037	99456253	intronic	0.579	0.511	T/C
	rs2293117	99478713	intronic	0.064	0.355	T/C
	rs2593053	99500256	intronic	0.429	0.288	G/A
	rs2654981	99505129	UTR3	0.369	0.432	C/G
	rs2684789	99492045	intronic	0.768	0.604	G/A
	rs2715429	99466969	intronic	0.777	0.841	C/G
	rs33982004	99473606	intronic	0.112	0.230	A/G
	rs3743249	99505423	UTR3	0.312	0.402	G/T
	rs3743250	99505316	UTR3	1	0.203	C/T
	rs3743251	99504129	UTR3	0.513	0.197	G/A
	rs3743256	99442595	intronic	0.091	0.103	A/G
	rs3743262	99465473	exonic	0.892	0.134	C/T
	rs4486868	99472734	intronic	0.185	0.337	T/C
	rs7174918	99251356	intronic	1	0.233	C/T
	rs9282715	99503836	UTR3	0.465	0.158	T/C
	rs951715	99456553	intronic	0.702	0.632	G/A
PIGF	rs2242033	46842410	intronic	0.069	0.477	A/G
(n=2)	rs2305350	46819815	intronic	0.401	0.453	A/G



Supplementary Fig 1 the LD plot of 23 SNPs of VEGFA, 6 SNPs of VEGFB, 13 SNPs of KDR and 17 SNPs of FLT-1



Supplementary Fig 2 the LD plot of 12 SNPs of IGF-1, 19 SNPs of IGF-1R and 2 SNPs of PIGF