

Supplement table 2: list of 2903 single nucleotide polymorphisms for which genotype data was retrieved.

snp	gene	allele	snp_pos
rs684	ITGB2	CT	46306161
rs1085	COL11A1	AC	103356168
rs1164	EMILIN2	CT	2917152
rs2429	COL14A1	GT	121384163
rs3522	LOXL1	CT	74244344
rs4415	FBLN1	AG	45971880
rs4416	FBLN1	AG	45972017
rs4572	TGFBI	GT	135399452
rs4625	DAG1	AG	49572140
rs4715	BMP1	AC	22021037
rs4799	PDIA6	CT	10933249
rs4807	PDIA6	CT	10930903
rs7242	SERPINE1	GT	100781445
rs7381	FBLN1	CT	45996782
rs8089	THBS2	AC	169617726
rs8111	TNXB	CT	32083175
rs8992	ADAMTS1	AG	28208954
rs9254	COL6A1	AG	47424346
rs9862	TIMP3	CT	33253280
rs11369	SPON1	AG	14288096
rs12140	ADAMTS1	CT	28209395
rs13294	ECM1	AG	150484987
rs13615	ADAMTS1	AG	28209667
rs13652	FN1	CT	216249587
rs13817	EFEMP2	AG	65628334
rs17576	MMP9	AG	44640225
rs20563	LAMC1	AG	183085755
rs25659	LAMB1	AG	107626770
rs28296	VCAN	CT	82760017
rs33598	VCAN	CT	82775634
rs33599	VCAN	AG	82774904
rs33604	VCAN	AG	82770586
rs42518	COL1A2	CT	94038934
rs42523	COL1A2	CT	94040999
rs42530	COL1A2	AG	94052495
rs72509	COL4A1	GT	110903187
rs80272	TIMP3	CT	33224779
rs80610	FBLN1	AG	45971291
rs130274	TIMP3	CT	33204334
rs130293	TIMP3	AG	33221939
rs130301	TIMP3	GT	33234199
rs130559	TIMP3	CT	33188536
rs130561	TIMP3	AC	33191373
rs134821	FBLN1	CT	45970029

rs135026	TIMP3	CT	33212769
rs135028	TIMP3	CT	33228070
rs135029	TIMP3	AG	33240290
rs135153	TIMP3	CT	33191491
rs136723	FBLN1	AG	45916679
rs136739	FBLN1	AG	45928147
rs136740	FBLN1	AG	45928324
rs136753	FBLN1	CT	45936121
rs136756	FBLN1	AG	45937061
rs137484	TIMP3	CT	33251279
rs137487	TIMP3	AG	33259104
rs137489	TIMP3	CT	33262935
rs151058	ADAMTS5	CT	28311572
rs151779	MMP2	CT	55447824
rs160277	VCAN	GT	82837631
rs160283	VCAN	AG	82859485
rs160380	VCAN	AG	82810714
rs162496	ADAMTS5	AG	28306575
rs162512	ADAMTS5	CT	28284577
rs162524	ADAMTS5	CT	28282383
rs169496	TNXB	CT	32052983
rs170962	ITGB2	CT	46295995
rs173686	VCAN	AG	82811500
rs183112	MMP2	AG	55527682
rs185493	COL23A1	CT	177991258
rs185819	TNXB	CT	32050067
rs188703	VCAN	AG	82834299
rs190145	ADAMTS1	CT	28203478
rs204899	TNXB	CT	32057627
rs226794	ADAMTS5	AG	28302355
rs229032	ADAMTS1	AG	28200449
rs229053	ADAMTS5	AC	28316268
rs229054	ADAMTS5	AG	28316816
rs229078	ADAMTS5	GT	28296135
rs229079	ADAMTS5	AG	28298049
rs229100	ADAMTS1	CT	28223092
rs233598	ADAMTS5	GT	28330838
rs233896	ADAMTS5	GT	28324568
rs235305	ITGB2	AG	46298869
rs235325	ITGB2	AG	46311264
rs235326	ITGB2	AG	46311813
rs235329	ITGB2	GT	46314440
rs240366	COL12A1	CT	75915356
rs240369	COL12A1	AG	75919484
rs240721	COL12A1	AG	75879135
rs240724	COL12A1	AG	75852488
rs240734	COL12A1	AG	75847036
rs240736	COL12A1	AG	75848181

rs241905	TIMP3	CT	33266865
rs242076	TIMP3	AG	33229830
rs242078	TIMP3	AG	33228692
rs242089	TIMP3	AG	33213319
rs243834	MMP2	AG	55536687
rs243840	MMP2	AG	55528159
rs243842	MMP2	CT	55527422
rs243866	MMP2	AG	55511537
rs251124	VCAN	CT	82805424
rs256459	VCAN	CT	82775906
rs262020	COL23A1	CT	177964317
rs262023	COL23A1	AG	178025087
rs262037	COL23A1	CT	177990886
rs262065	COL23A1	AC	177999447
rs265332	LAMA2	AG	129551233
rs265365	LAMA2	AG	129556965
rs265371	LAMA2	CT	129600523
rs265387	LAMA2	AG	129564944
rs265395	LAMA2	AG	129594759
rs265402	LAMA2	GT	129578216
rs284142	TGFBR3	CT	92256626
rs284169	TGFBR3	AG	92213442
rs284170	TGFBR3	CT	92214628
rs284175	TGFBR3	AG	92222275
rs284176	TGFBR3	AG	92223976
rs284180	TGFBR3	AC	92227848
rs284198	TGFBR3	GT	92238167
rs284202	TGFBR3	AG	92241033
rs284877	TGFBR3	CT	92173796
rs308362	VCAN	AG	82823791
rs308363	VCAN	AG	82838532
rs309556	VCAN	CT	82840259
rs309561	VCAN	AG	82830308
rs309581	VCAN	CT	82871546
rs309596	VCAN	CT	82844728
rs309599	VCAN	AG	82881455
rs310504	VCAN	CT	82820278
rs310517	VCAN	GT	82814521
rs331380	ECM2	CT	95256519
rs369982	COL1A2	AG	94048482
rs377258	LAMA2	GT	129533324
rs387298	COL4A2	AG	111159628
rs390955	ADAMTS1	AC	28218457
rs392840	ADAMTS1	CT	28218381
rs400218	COL1A2	AG	94056006
rs400532	COL4A2	AC	111154631
rs406174	COL4A2	AG	111155363
rs411717	COL1A2	CT	94033031

rs413756	COL4A2	CT	111143755
rs421587	COL1A2	AG	94043274
rs428815	TGFBR3	CT	92260920
rs441051	COL1A2	CT	94054000
rs445348	COL4A2	AG	111158874
rs467691	ADAMTS5	GT	28286590
rs468276	ADAMTS1	CT	28203651
rs470168	MMP10	AG	102641382
rs470215	MMP1	CT	102661099
rs470215	MMP10	CT	102661099
rs470504	MMP1	CT	102658689
rs470504	MMP10	CT	102658689
rs470747	MMP1	AG	102661595
rs471972	DPT	GT	168701085
rs472238	COL23A1	CT	177968768
rs489777	COL23A1	CT	177960872
rs492560	COL4A1	CT	110919976
rs497888	COL4A1	CT	110916553
rs498186	MMP1	AC	102669645
rs501630	EFEMP2	AG	65637273
rs504596	COL23A1	AG	177974127
rs506739	EMILIN2	AC	2856536
rs515242	COL23A1	AG	177963524
rs519806	MMP1	AG	102675489
rs529041	COL4A1	CT	110860219
rs529949	DPT	CT	168691984
rs529998	VCAN	CT	82841764
rs535858	COL23A1	AC	177971352
rs536014	DPT	CT	168695477
rs538060	DPT	AC	168662302
rs539707	COL23A1	CT	177906494
rs540519	COL4A1	AG	110922195
rs545833	DPT	CT	168689940
rs547561	MMP10	CT	102643894
rs552125	COL4A1	CT	110938813
rs553780	COL23A1	CT	177961860
rs554152	COL12A1	CT	75789526
rs555417	COL23A1	AG	178010145
rs556674	COL12A1	AG	75811880
rs561168	COL4A1	CT	110884208
rs561437	COL4A1	CT	110936227
rs562992	COL4A1	GT	110908777
rs564195	COL23A1	CT	177965633
rs564487	COL23A1	GT	177977679
rs566806	DCN	AG	91559197
rs566974	COL23A1	AG	177985652
rs574430	COL4A1	AG	110852220
rs574482	DCN	AG	91538458

rs581753	DPT	AG	168679692
rs585219	COL23A1	CT	177936898
rs585433	SERPINH1	AG	75292601
rs587409	COL4A1	CT	110903507
rs595325	COL4A1	AC	110919205
rs596279	COL23A1	CT	177966921
rs599483	COL4A1	AG	110930364
rs606452	SERPINH1	AC	75276178
rs608585	SERPINH1	AG	75268704
rs609309	SERPINH1	AG	75287341
rs613116	COL4A1	AC	110808823
rs614664	ITGB5	AC	124486993
rs616008	COL4A1	CT	110878344
rs619152	COL4A1	AG	110939497
rs621209	ITGB5	AG	124494030
rs622432	COL23A1	CT	177910253
rs622486	COL4A1	AG	110848291
rs623561	EMILIN2	AG	2872586
rs625053	COL4A1	AC	110875942
rs625820	COL23A1	GT	177995909
rs626444	COL4A1	CT	110864396
rs627527	COL4A1	AG	110915135
rs629241	COL23A1	CT	177933945
rs630943	COL4A1	AG	110877046
rs631428	COL4A1	CT	110808681
rs631451	DPT	AG	168668005
rs635567	COL12A1	AC	75829646
rs637647	EMILIN2	CT	2881839
rs640649	SERPINH1	AG	75271851
rs642624	COL23A1	CT	177969010
rs642887	EMILIN2	AG	2874408
rs642926	EMILIN2	AG	2916054
rs644582	COL4A1	AG	110840028
rs648705	COL4A1	AC	110856153
rs652054	SERPINH1	AC	75275532
rs656533	COL4A1	AG	110793123
rs657635	FBN1	AC	48882966
rs668842	FBN1	CT	48891965
rs672949	COL4A1	CT	110879554
rs673482	SERPINH1	AC	75268603
rs674503	SERPINH1	CT	75268337
rs679153	EMILIN2	GT	2869916
rs679958	COL4A1	CT	110879007
rs680484	COL4A1	GT	110881085
rs682367	DPT	AG	168664450
rs684320	EMILIN2	AG	2851819
rs688074	COL23A1	AG	177965696
rs695103	VCAN	CT	82841476

rs713835	LGALS1	CT	38064650
rs713896	FBLN1	AG	45908895
rs715572	TIMP3	AG	33234931
rs716817	PDIA4	AG	148694939
rs716818	PDIA4	CT	148694971
rs717975	SERPINA12	CT	94944874
rs718041	TGFBI	CT	135370197
rs723556	TIMP1	AG	47432747
rs724617	FN1	AG	216282481
rs726063	FBLN5	CT	92373198
rs726328	ADAM22	CT	87739123
rs730179	TLL2	AG	98171325
rs732989	SPON1	AG	13978737
rs734566	TLL2	CT	98255314
rs734909	ADAM22	AC	87836113
rs736389	MATN4	CT	43946768
rs736846	DPT	AG	168695609
rs737088	TIMP3	CT	33187942
rs739215	FBLN1	AG	45967526
rs739270	FBLN1	AG	45943203
rs741198	FBLN5	CT	92367411
rs741212	DCN	AG	91574742
rs743257	MMP14	CT	23315331
rs743642	BGN	GT	152774221
rs743931	FBLN1	AG	45959540
rs746997	NID1	AG	236195181
rs748004	TLL2	GT	98158431
rs748289	ADAM12	CT	127837841
rs749167	NID1	CT	236177874
rs749259	COL5A3	CT	10113626
rs749425	COL23A1	CT	177751751
rs750449	FBLN1	CT	45894122
rs751181	COL23A1	GT	177776148
rs752283	COL23A1	CT	177682664
rs753833	FBLN2	CT	13606196
rs754423	NID2	CT	52527187
rs755251	FBN1	AG	48812020
rs756462	TGFBI	CT	135367945
rs756625	CILP	AG	65493309
rs757931	LAMB1	AC	107586518
rs760458	ITGB2	AC	46328917
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rs762052	MMP14	AG	23308986
rs762438	COL6A2	CT	47536546
rs762625	CHI3L1	CT	203145301
rs762990	LGALS1	AG	38085475
rs763100	FBLN1	AC	45988571
rs763101	FBLN1	GT	45988612

rs810687	COL1A2	AG	94034848
rs837531	MMP2	CT	55494432
rs848792	ITGB5	CT	124574342
rs857587	PRG4	AG	186261061
rs857591	PRG4	GT	186257518
rs868589	ADAM12	CT	128002008
rs869776	COL15A1	CT	101810339
rs872328	ADAM12	CT	127710102
rs872587	COL4A2	AC	111015780
rs873957	ADAM12	AG	128003149
rs876043	FBLN5	AG	92357145
rs876084	COL14A1	CT	121101522
rs877336	MMP2	GT	55442987
rs879266	TLL2	AG	98263545
rs880295	ADAM11	CT	42848094
rs880633	CHI3L1	CT	203152801
rs881029	GPC1	CT	241403014
rs882727	COL15A1	AG	101730121
rs883873	TGFBR3	AG	92380302
rs889125	COL5A3	AC	10120571
rs889130	COL5A3	CT	10063445
rs890801	COL23A1	AG	177715291
rs890807	COL23A1	AG	177718389
rs890813	COL23A1	CT	177751488
rs893226	MMP2	GT	55502896
rs893260	MMP2	AG	55444847
rs893817	LOXL1	AG	74229065
rs893821	LOXL1	CT	74241235
rs894761	EMILIN2	AC	2856482
rs896056	FBLN2	AG	13583528
rs897189	MATN2	CT	98963817
rs897190	MATN2	AG	98945345
rs900030	SPON2	CT	1193832
rs901913	TGFBR3	GT	92293162
rs902370	LAMA2	AG	129605056
rs903352	COL4A1	AC	110917524
rs903354	COL4A1	GT	110916819
rs903355	COL4A1	AG	110952028
rs903355	COL4A2	AG	110952028
rs908810	FBLN2	AG	13674571
rs912946	COL4A2	AG	111147846
rs913746	COL4A2	AC	111016124
rs914991	COL15A1	AC	101834340
rs917055	COL2A1	AG	48385576
rs917205	ADAM22	AG	87717762
rs918542	COL5A3	CT	10071634
rs920686	CILP	AG	65511429
rs922146	TLL1	AG	166798354

rs924209	COL6A3	CT	238227536
rs927730	NID1	CT	236209883
rs928111	COL4A2	AC	111016886
rs929039	LGALS1	CT	38071511
rs929608	FBLN5	CT	92336775
rs930054	COL23A1	AC	177755433
rs933106	LAMA2	AG	129845907
rs937618	VCAN	CT	82782892
rs938605	ACAN	AG	89424581
rs938608	ACAN	GT	89398605
rs938613	ACAN	AG	89377773
rs938952	CILP	CT	65489128
rs939585	ACAN	CT	89378258
rs939590	ACAN	AG	89425779
rs944223	TNC	AG	117823775
rs944510	TNC	CT	117853022
rs944949	OGN	AG	95140613
rs945256	TNC	AG	117886024
rs946261	CHI3L1	CT	203157873
rs946262	CHI3L1	CT	203158229
rs946263	CHI3L1	AG	203165381
rs946615	NID2	CT	52481917
rs951958	ADAM19	AC	156889097
rs953288	TNC	AC	117805719
rs953386	COL4A1	CT	110943692
rs954326	COL2A1	GT	48394823
rs955293	COL14A1	AG	121080548
rs959537	COL14A1	GT	121253053
rs962066	VCAN	GT	82768214
rs964114	NID1	AG	236230900
rs964141	MATN2	AG	98962450
rs969139	LAMA4	CT	112446876
rs970547	COL12A1	CT	75797302
rs971394	NID2	AG	52522539
rs971402	LAMA4	AG	112487900
rs976240	COL15A1	AG	101797043
rs977795	MATN2	AG	98996027
rs981181	CCDC80	AC	112353238
rs985461	ADAM12	CT	127769545
rs985462	ADAM12	CT	127769598
rs990541	LAMA2	AG	129556517
rs994370	NPNT	CT	106923626
rs1000989	COL4A1	CT	110827303
rs1003349	MMP14	GT	23305663
rs1005913	MMP2	GT	55504521
rs1006666	ADAM12	CT	127854772
rs1007856	ITGB5	AG	124604858
rs1009002	ITGB1	AG	33236901

rs1010222	CALR	AG	13048608
rs1010831	COL14A1	AC	121257344
rs1012466	TNN	CT	175109884
rs1012808	SERPINA12	AG	94961086
rs1015081	ACAN	AG	89382608
rs1017723	ADAM12	CT	127746825
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rs1017957	TGFBR3	CT	92314131
rs1018139	TLL1	AG	166848001
rs1018643	COL4A2	AG	111096925
rs1018829	TNN	AG	175109722
rs1020235	ITGAV	CT	187447029
rs1025412	SPON1	AG	14246296
rs1025413	SPON1	CT	14247109
rs1028157	FBLN2	GT	13617049
rs1032255	TGFBR3	CT	92286940
rs1033813	COL15A1	CT	101698023
rs1034620	COL1A2	CT	94063415
rs1034762	COL2A1	AC	48389643
rs1036477	FBN1	AG	48914926
rs1039494	TLL1	AG	166941483
rs1041631	COL15A1	AG	101781858
rs1042630	ACAN	AG	89402051
rs1042704	MMP14	AG	23312594
rs1042917	COL6A2	AG	47545768
rs1050348	LAMA4	AG	112493872
rs1050813	SERPINE1	AG	100781615
rs1051069	NID2	AG	52478315
rs1051442	THBS1	CT	39887649
rs1051534	COL14A1	AG	121062077
rs1053312	COL6A1	AG	47423389
rs1053605	MMP2	CT	55519607
rs1056204	ADAM17	AC	9647091
rs1057285	TNN	CT	175126845
rs1058177	LAMC1	AG	183109171
rs1060545	TNC	AC	117821618
rs1061375	FBLN2	AG	13679203
rs1061947	COL1A1	AG	48262119
rs1063964	ADAM22	AG	87835469
rs1091811	ELN	AG	73491212
rs1091813	ELN	CT	73489736
rs1091814	ELN	AC	73489663
rs1107373	TNC	AG	117779933
rs1110163	COL23A1	AG	177761768
rs1120519	COL11A1	CT	103402184
rs1122869	COL3A1	AG	189829688
rs1123875	SPON1	CT	14253824
rs1126499	BGN	CT	152771509

rs1126823	ACAN	AG	89417238
rs1127648	CSPG4	AG	75967095
rs1130643	SPARCL1	CT	88412806
rs1131296	COL6A3	AG	238243292
rs1133219	COL4A1	AG	110813709
rs1134745	COL4A3	CT	228177567
rs1143678	ITGAM	CT	31343005
rs1143683	ITGAM	CT	31336888
rs1143914	COL4A1	AG	110867235
rs1150752	TNXB	CT	32064726
rs1150754	TNXB	CT	32050758
rs1151573	NID2	AG	52468641
rs1151578	NID2	GT	52477782
rs1151579	NID2	AG	52477835
rs1151582	NID2	CT	52482768
rs1152653	ADAM12	AG	127759334
rs1158471	COL14A1	CT	121277396
rs1158747	LAMA4	GT	112500650
rs1160798	LAMA4	CT	112438446
rs1170390	PLOD2	CT	145863779
rs1187056	ITGB1	AG	33260547
rs1187070	ITGB1	AC	33241138
rs1187078	ITGB1	AG	33249133
rs1187086	ITGB1	AG	33281942
rs1187095	ITGB1	CT	33266888
rs1192198	COL4A1	CT	110811578
rs1192201	COL4A1	AG	110806490
rs1192202	COL4A1	AC	110806524
rs1192524	TGFBR3	AG	92340684
rs1198873	PDIA6	CT	10924524
rs1208984	PLOD1	AG	11995176
rs1241163	COL11A1	AC	103355765
rs1241169	COL11A1	CT	103384610
rs1241182	COL11A1	AC	103348100
rs1250023	TNC	CT	117869930
rs1250105	SPON2	CT	1203265
rs1250126	SPON2	AG	1191042
rs1250248	FN1	AG	216287093
rs1250249	FN1	AG	216287276
rs1253682	NID2	CT	52463153
rs1265646	ITGB5	AG	124592700
rs1271449	TNC	CT	117852522
rs1273108	TNC	AG	117866424
rs1278278	ADAM12	AG	127753274
rs1278280	ADAM12	GT	127755544
rs1278282	ADAM12	AC	127756457
rs1278300	ADAM12	AG	127791184
rs1278302	ADAM12	AC	127798951

rs1278313	ADAM12	CT	127814489
rs1278315	ADAM12	CT	127815531
rs1278325	ADAM12	CT	127820978
rs1278327	ADAM12	AC	127822430
rs1278329	ADAM12	GT	127823151
rs1278331	ADAM12	CT	127823470
rs1278352	ADAM12	AG	127773376
rs1278377	ADAM12	AG	127869478
rs1293989	PRG4	AC	186267100
rs1320131	GPC1	CT	241411289
rs1323070	COL12A1	AG	75923605
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rs17358566	COL3A1	CT	189837995
rs17359286	MMP10	GT	102643718
rs17364665	FBN1	AC	48884829
rs17365477	PDIA6	CT	10970124
rs17367956	COL4A3	AG	228064828
rs17388474	TLL2	AG	98129058
rs17455729	PDIA6	AG	10928250
rs17463112	SPON1	CT	14001955
rs17505781	TLL1	CT	166967504
rs17513917	TGFBR3	CT	92205197
rs17516906	FN1	AG	216279273
rs17517598	COL4A1	GT	110825264

rs17517971	COL4A1	AG	110828119
rs17556665	SPON1	GT	14098482
rs17564689	FBLN1	AG	46006110
rs17571088	TGFBR3	AG	92146890
rs17574203	TGFBR3	AC	92265144
rs17576372	TGFBR3	CT	92366174
rs17588591	COL4A1	GT	110808738
rs17589948	COL23A1	AG	177904577
rs17590344	TLL1	AG	166960363
rs17590882	ADAM17	AG	9661775
rs17599222	ADAM19	GT	156817266
rs17633210	THBS1	AC	39900566
rs17641413	COL23A1	CT	177773700
rs17648414	COL23A1	CT	177851690
rs17659250	ADAM19	CT	156940873
rs17684676	ADAM12	AG	127951798
rs17684713	ADAM12	AC	127952874
rs17689892	TLL1	AC	166927050
rs17689964	TLL1	AG	166946775
rs17711860	COL15A1	AG	101800106
rs17718324	SPARC	AG	151058179
rs17742838	LAMA2	CT	129681346
rs17752721	LAMA2	CT	129820505
rs17752900	SERPINA12	CT	94983794
rs17752932	SERPINA12	AG	94986871
rs17753252	LAMA2	AG	129841984
rs17759651	ADAM12	CT	128066982
rs17783485	LAMA2	AG	129427787
rs17783615	COL12A1	CT	75878185
rs17799083	LAMA2	AC	129673136
rs17802266	SPON2	AC	1158991
rs17805293	FBLN5	CT	92369592
rs17805775	CILP	CT	65505038
rs17819305	TNC	CT	117816230
rs17825644	SERPINA12	CT	94944112
rs17829645	MATN2	CT	98954739
rs17833457	COL14A1	GT	121276075
rs35013643	ITGB2	AG	46320283