

Supplementary Data

SUPPLEMENTARY TABLE S1. SUMMARY OF TISSUE MICROARRAY DEFINES PERIVASCULAR ANTIGENS BY HISTOLOGIC LOCATION

<i>Ensg_id</i>	<i>Gene name</i>	<i>Location within vascular wall</i>
ENSG00000277758	ABC7-42404400C24.1	Intima
ENSG00000135776	ABCB10	Intima
ENSG00000131269	ABCB7	Intima
ENSG00000108798	ABI3	Intima, media
ENSG00000213088	ACKR1	Intima
ENSG00000107796	ACTA2	Media
ENSG00000101442	ACTR5	Media
ENSG00000181092	ADIPOQ	Intima
ENSG00000111863	ADTRP	Intima
ENSG00000121057	AKAP1	Intima
ENSG00000182858	ALG12	Intima
ENSG00000198720	ANKRD13B	Intima
ENSG00000276203	ANKRD20A3	Intima, adventitia
ENSG00000167612	ANKRD33	Intima, media
ENSG00000164236	ANKRD33B	Intima
ENSG00000088756	ARHGAP28	Intima
ENSG00000004777	ARHGAP33	Media
ENSG00000099889	ARVCF	Media
ENSG00000058668	ATP2B4	Intima
ENSG00000064270	ATP2C2	Intima
ENSG00000183778	B3GALT5	Intima
ENSG00000156966	B3GNT7	Intima
ENSG00000126581	BECN1	Intima
ENSG00000186470	BTN3A2	Media
ENSG00000174456	C12orf76	Intima
ENSG00000205363	C15orf59	Intima
ENSG00000157181	C1orf27	Intima, media
ENSG00000130349	C6orf203	Intima, media
ENSG00000164500	C7orf72	Media
ENSG00000120159	CAAP1	Intima, media, adventitia
ENSG00000122786	CALD1	Media
ENSG00000135387	CAPRIN1	Intima, media
ENSG00000105974	CAV1	Intima
ENSG00000105971	CAV2	Intima, media
ENSG00000150636	CCDC102B	Intima
ENSG00000163081	CCDC140	Intima
ENSG00000170160	CCDC144A	Media
ENSG00000197599	CCDC154	Media
ENSG00000154781	CCDC174	Media
ENSG00000176155	CCDC57	Intima, media
ENSG00000198624	CCDC69	Intima
ENSG00000125810	CD93	Intima
ENSG00000163814	CDCP1	Intima
ENSG00000223510	CDRT15	Media
ENSG00000166582	CENPV	Intima, media
ENSG00000135315	CEP162	Intima
ENSG00000147457	CHMP7	Intima, media
ENSG00000169504	CLIC4	Intima
ENSG00000137392	CLPS	Intima
ENSG00000133313	CNDP2	Intima
ENSG00000130176	CNN1	Media
ENSG00000117519	CNN3	Intima, media
ENSG00000125107	CNOT1	Intima, media
ENSG00000119397	CNTRL	Media
ENSG00000170037	CNTROB	Intima, media

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SUPPLEMENTARY TABLE S1. (CONTINUED)

<i>Ensg_id</i>	<i>Gene name</i>	<i>Location within vascular wall</i>
ENSG00000162377	COA7	Media
ENSG00000204291	COL15A1	Intima
ENSG00000134871	COL4A2	Intima
ENSG00000103426	CORO7-PAM16	Intima
ENSG00000182809	CRIP2	Intima, media
ENSG00000175183	CSRP2	Media
ENSG00000269547	CTC-360G5.8	Media
ENSG00000171793	CTPS1	Intima, media
ENSG00000155016	CYP2U1	Intima
ENSG00000198171	DDRGI1	Media
ENSG00000181381	DDX60L	Intima
ENSG00000184276	DEFB108B	Media
ENSG00000105928	DFNA5	Intima
ENSG00000147202	DIAPH2	Intima
ENSG00000198010	DLGAP2	Media
ENSG00000269502	DMRTC1	Intima
ENSG00000150760	DOCK1	Intima
ENSG00000254986	DPP3	Intima, media
ENSG00000188641	DPYD	Media
ENSG00000112679	DUSP22	Media
ENSG00000089091	DZANK1	Media
ENSG00000203965	EFCAB7	Intima
ENSG00000110047	EHD1	Intima, adventitia
ENSG00000115211	EIF2B4	Media
ENSG00000125977	EIF2S2	Intima
ENSG00000164181	ELOVL7	Intima
ENSG00000143924	EML4	Intima
ENSG00000106991	ENG	Intima
ENSG00000068912	ERLEC1	Intima
ENSG00000148468	FAM171A1	Intima, media
ENSG00000135436	FAM186B	Media
ENSG00000214447	FAM187A	Media
ENSG00000144649	FAM198A	Intima
ENSG00000108306	FBXL20	Intima
ENSG00000111790	FGFR10P2	Intima, media
ENSG00000160867	FGFR4	Media
ENSG00000161791	FMNL3	Intima
ENSG00000217128	FNIP1	Intima
ENSG00000075539	FRYL	Intima
ENSG00000105679	GAPDHS	Media
ENSG00000136895	GARNL3	Intima
ENSG00000146013	GFRA3	Intima
ENSG00000100083	GGA1	Media
ENSG00000131067	GGT7	Media
ENSG00000131153	GINS2	Media
ENSG00000159248	GJD2	Intima
ENSG00000139433	GLTP	Intima
ENSG00000114450	GNB4	Intima, media
ENSG00000135677	GNS	Intima
ENSG00000164850	GPER1	Intima, media
ENSG00000177464	GPR4	Intima, media
ENSG00000198932	GPRASP1	Intima
ENSG00000182793	GSTA5	Intima
ENSG00000075218	GTSE1	Intima
ENSG00000061918	GUCY1B3	Intima
ENSG00000165259	HDX	Intima
ENSG00000113845	HLA-DRA	Intima
ENSG00000068097	HEATR6	Intima, media
ENSG00000172987	HPSE2	Intima
ENSG00000157219	HTR5A	Intima
ENSG00000067704	IARS2	Intima
ENSG00000137959	IFI44L	Media

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SUPPLEMENTARY TABLE S1. (CONTINUED)

<i>Ensg_id</i>	<i>Gene name</i>	<i>Location within vascular wall</i>
ENSG00000119917	IFIT3	Intima
ENSG00000109083	IFT20	Intima, media
ENSG00000152580	IGSF10	Intima
ENSG00000216588	IGSF23	Intima, media
ENSG00000164880	INTS1	Intima, media
ENSG00000065150	IPO5	Intima
ENSG00000198001	IRAK4	Intima, media
ENSG00000164171	ITGA2	Intima
ENSG00000186994	KANK3	Intima
ENSG00000182359	KBTBD3	Media
ENSG00000120696	KBTBD7	Intima
ENSG00000140015	KCNH5	Intima, media
ENSG00000186795	KCNK18	Intima
ENSG00000198920	KIAA0753	Intima, media
ENSG00000134444	KIAA1468	Media
ENSG00000136883	KIF12	Intima, media
ENSG00000089177	KIF16B	Media
ENSG00000198954	KIF1BP	Media
ENSG00000178502	KLHL11	Intima
ENSG00000135537	LACE1	Intima, media
ENSG00000135338	LCA5	Intima
ENSG00000205629	LCMT1	Intima
ENSG00000189067	LITAF	Media
ENSG00000071282	LMCD1	Intima
ENSG00000163431	LMOD1	Media
ENSG00000154359	LONRF1	Intima, media
ENSG00000132128	LRRC41	Intima
ENSG00000169683	LRRC45	Media
ENSG00000131409	LRRC4B	Intima
ENSG00000171488	LRRC8C	Intima
ENSG00000177363	LRRN4CL	Intima
ENSG00000112799	LY86	Intima
ENSG00000189023	MAGEB16	Intima
ENSG00000186675	MAGEE2	Intima, media
ENSG00000137764	MAP2K5	Media
ENSG00000047849	MAP4	Intima, media
ENSG00000143995	MEIS1	Intima
ENSG00000010165	METTL13	Media
ENSG00000155545	MIER3	Intima
ENSG00000106125	MINDY4	Intima
ENSG00000142606	MMEL1	Intima
ENSG00000156103	MMP16	Intima
ENSG00000116151	MORN1	Intima, media
ENSG00000136522	MRPL47	Intima, media
ENSG00000172590	MRPL52	Intima
ENSG00000175110	MRPS22	Intima
ENSG00000128654	MTX2	Media
ENSG00000133392	MYH11	Media
ENSG00000100345	MYH9	Intima
ENSG00000101608	MYL12A	Intima, media
ENSG00000111245	MYL2	Intima, media
ENSG00000101335	MYL9	Intima, media
ENSG00000145555	MYO10	Intima
ENSG00000197879	MYO1C	Intima
ENSG00000066933	MYO9A	Intima
ENSG00000161048	NAPEPLD	Intima
ENSG00000160796	NBEAL2	Intima
ENSG00000188554	NBR1	Intima
ENSG00000136098	NEK3	Intima
ENSG00000132688	NES	Intima
ENSG00000173848	NET1	Media
ENSG00000215041	NEURL4	Media

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SUPPLEMENTARY TABLE S1. (CONTINUED)

<i>Ensg_id</i>	<i>Gene name</i>	<i>Location within vascular wall</i>
ENSG00000100968	NFATC4	Intima, media
ENSG00000164190	NIPBL	Intima
ENSG00000148572	NRBF2	Intima
ENSG00000169189	NSMCE1	Intima, media
ENSG00000120526	NUDCD1	Media
ENSG00000122417	ODF2L	Media
ENSG00000183034	OTOP2	Intima
ENSG00000280789	PAGR1	Intima
ENSG00000099260	PALMD	Intima
ENSG00000132849	PATJ	Intima, media
ENSG00000177425	PAWR	Media
ENSG00000163939	PBRM1	Intima
ENSG00000126226	PCID2	Media
ENSG00000136940	PDCL	Intima, media
ENSG00000186642	PDE2A	Intima
ENSG00000065485	PDIA5	Intima
ENSG00000114268	PFKFB4	Media
ENSG00000185220	PGBD2	Intima
ENSG00000079739	PGM1	Media
ENSG00000165195	PIGA	Media
ENSG00000119227	PIGZ	Media
ENSG00000078142	PIK3C3	Intima
ENSG00000186111	PIP5K1C	Media
ENSG00000241878	PISD	Media
ENSG00000107959	PITRM1	Media
ENSG00000103066	PLA2G15	Intima
ENSG00000115556	PLCD4	Media
ENSG00000178209	PLEC	Intima
ENSG00000198523	PLN	Media
ENSG00000189266	PNRC2	Intima, media
ENSG00000185250	PPIL6	Intima
ENSG00000148840	PPRC1	Intima, media
ENSG00000128563	PRKRIP1	Intima
ENSG00000008018	PSMB1	Intima
ENSG00000277791	PSMB3	Media
ENSG00000173692	PSMD1	Intima
ENSG00000169398	PTK2	Intima, media
ENSG00000177469	PTRF	Intima
ENSG00000170473	PYM1	Media
ENSG00000213339	QTRT1	Intima, media
ENSG00000103769	RAB11A	Media
ENSG00000029725	RABEP1	Media
ENSG00000144134	RABL2A	Intima, media
ENSG00000204764	RANBP17	Intima, media
ENSG00000139547	RDH16	Media, adventitia
ENSG00000143344	RGL1	Media
ENSG00000128482	RNF112	Intima
ENSG00000141576	RNF157	Intima, media
ENSG00000120925	RNF170	Media
ENSG00000169855	ROBO1	Media
ENSG00000179673	RPRML	Intima
ENSG00000137154	RPS6	Intima
ENSG00000196154	S100A4	Intima
ENSG00000123453	SARDH	Media
ENSG00000133812	SBF2	Intima
ENSG00000198832	SELENOM	Media
ENSG00000122545	Septin 7	Intima
ENSG00000142864	SERBP1	Intima, media
ENSG00000187902	SHISA7	Intima, media
ENSG00000170085	SIMC1	Intima, media
ENSG00000158296	SLC13A3	Media
ENSG00000172940	SLC22A13	Intima, media

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SUPPLEMENTARY TABLE S1. (CONTINUED)

<i>Ensg_id</i>	<i>Gene name</i>	<i>Location within vascular wall</i>
ENSG00000163393	SLC22A15	Intima
ENSG00000100372	SLC25A17	Intima, media
ENSG00000145832	SLC25A48	Intima
ENSG00000146411	SLC2A12	Media
ENSG00000162695	SLC30A7	Intima, media
ENSG00000160190	SLC37A1	Media
ENSG00000137968	SLC44A5	Media
ENSG00000065054	SLC9A3R2	Intima
ENSG00000183963	SMTN	Media
ENSG00000185420	SMYD3	Intima
ENSG00000173267	SNCG	Intima, media
ENSG00000006282	SPATA20	Intima
ENSG00000160284	SPATC1L	Media
ENSG00000104133	SPG11	Intima
ENSG00000164808	SPIDR	Media
ENSG00000115525	ST3GAL5	Intima
ENSG00000064225	ST3GAL6	Intima, media
ENSG00000166263	STXBP4	Intima
ENSG00000172340	SUCLG2	Intima
ENSG00000175600	SUGCT	Intima, media
ENSG00000198168	SVIP	Intima, media
ENSG00000116668	SWT1	Intima, media
ENSG00000182253	SYNM	Media
ENSG00000149591	TAGLN	Intima
ENSG00000136560	TANK	Intima
ENSG00000221855	TAS2R41	Media
ENSG00000167202	TBC1D2B	Intima
ENSG00000198933	TBKBP1	Intima
ENSG00000092377	TBL1Y	Media
ENSG00000152760	TCTEX1D1	Intima
ENSG00000099797	TECR	Media
ENSG00000149256	TENM4	Media
ENSG00000152291	TGOLN2	Media
ENSG00000265354	TIMM23	Intima, media
ENSG00000113845	TIMMDC1	Intima
ENSG00000142910	TINAGL1	Media
ENSG00000137221	TJAP1	Intima
ENSG00000170537	TMC7	Intima, media
ENSG00000166575	TMEM135	Intima
ENSG00000175606	TMEM70	Intima
ENSG00000178297	TMPRSS9	Intima
ENSG00000145779	TNFAIP8	Intima
ENSG00000120332	TNN	Media
ENSG00000116147	TNR	Media, adventitia
ENSG00000140416	TPM1	Intima, media
ENSG00000198467	TPM2	Intima
ENSG00000107614	TRDMT1	Media
ENSG00000144015	TRIM43	Intima, media
ENSG00000183718	TRIM52	Intima
ENSG00000169871	TRIM56	Intima, media
ENSG00000165699	TSC1	Media
ENSG00000116918	TSNAX	Media
ENSG00000005379	TSPOAP1	Intima
ENSG00000119685	TTLL5	Intima, media
ENSG00000108106	UBE2S	Media
ENSG00000143222	UFC1	Media
ENSG00000070010	UFD1L	Intima
ENSG00000124602	UNC5CL	Media
ENSG00000006715	VPS41	Media
ENSG00000165633	VSTM4	Intima, media
ENSG00000102763	VWA8	Media
ENSG00000146530	VWDE	Intima

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SUPPLEMENTARY TABLE S1. (CONTINUED)

<i>Ensg_id</i>	<i>Gene name</i>	<i>Location within vascular wall</i>
ENSG00000110799	VWF	Intima
ENSG00000120860	WASHC3	Intima
ENSG00000165171	WBSCR27	Media
ENSG00000047056	WDR37	Intima, adventitia
ENSG00000135925	WNT10A	Intima
ENSG00000164171	XCR1	Intima
ENSG00000137693	YAP1	Intima
ENSG00000163872	YEATS2	Intima, media
ENSG00000236287	ZBED5	Media
ENSG00000123200	ZC3H13	Intima, media
ENSG00000134744	ZCCHC11	Media
ENSG00000172671	ZFAND4	Intima
ENSG00000184939	ZFP90	Intima
ENSG00000138658	ZGRF1	Intima
ENSG00000167384	ZNF180	Media
ENSG00000090612	ZNF268	Intima
ENSG00000131845	ZNF304	Intima
ENSG00000182986	ZNF320	Media
ENSG00000188033	ZNF490	Intima
ENSG00000188171	ZNF626	Media
ENSG00000197343	ZNF655	Intima
ENSG00000156853	ZNF689	Intima
ENSG00000164684	ZNF704	Intima, media
ENSG00000197362	ZNF786	Intima

List of 328 proteins consistently and specifically expressed within different layers of the vessel wall in normal adult human adipose tissue, including the *tunica intima*, *media*, and *adventitia* (see also Fig. 3A). The antigens are specific to the *tunica intima* and are then further categorized by their subcellular location.