

Table 6. Correlation of genes involved in vascular calcification regulation and the BMP2-Wnt pathway with *Abcc6* expression in skeletal muscle from the BxH intercross

Gene	<i>Abcc6</i> correlation			
	<i>r</i> -Pearson	<i>Pp</i>	<i>r</i> -Spearman	<i>Ps</i>
<i>Tnfa</i> *	-0.5660	2.07E-28	-0.3941	2.70E-13
<i>Akp2</i> *	0.5296	1.85E-24	0.4372	2.54E-16
<i>Enpp1</i> *	-0.5147	5.57E-23	-0.3548	6.76E-11
<i>Slc20a1</i> *	-0.4834	4.41E-20	-0.3798	2.21E-12
<i>Tnfsf11</i> *	-0.4646	1.73E-18	-0.3763	3.61E-12
<i>Slc20a2</i> *	0.4527	1.59E-17	0.3923	3.49E-13
<i>Smad6</i> *	0.3672	1.28E-11	0.3423	3.39E-10
<i>Ank</i> *	0.3552	6.45E-11	0.3084	1.86E-08
<i>Vkorc1</i> *	0.3544	7.13E-11	0.3504	1.20E-10
<i>Sparc</i> *	-0.3393	4.94E-10	-0.3352	8.13E-10
<i>Sp7</i> *	0.3268	2.25E-09	0.3367	6.79E-10
<i>Tnfrsf11b</i> *	0.3218	4.07E-09	0.3161	7.79E-09
<i>Cyp27b1</i> *	0.3216	4.14E-09	0.3188	5.73E-09
<i>Lrp6</i> *	0.3162	7.73E-09	0.2713	8.68E-07
<i>Bmpr2</i> *	0.3145	9.43E-09	0.2864	1.95E-07
<i>Wnt3a</i> *	0.3084	1.87E-08	0.2444	1.01E-05
<i>Lrp5</i> *	0.2747	6.26E-07	0.2860	2.03E-07
<i>Sfrp1</i> *	-0.2664	1.38E-06	-0.2447	9.86E-06
<i>Tnfrsf11a</i>	0.2568	3.38E-06	0.2798	3.79E-07
<i>Wnt7a</i> *	0.2433	1.11E-05	0.2573	3.23E-06
<i>Msx2</i> *	0.2118	0.0001	0.2141	0.0001
<i>Fbn1</i> *	-0.2113	0.0001	-0.1950	0.0005
<i>Dkk1</i> *	0.2112	0.0001	0.1923	0.0006
<i>Dcn</i>	-0.1835	0.0029	-0.1995	0.0012
<i>Bmp2</i>	0.1652	0.0031	0.1577	0.0047
<i>Msx1</i>	-0.1582	0.0046	-0.1316	0.0187
<i>Car2</i>	0.1547	0.0056	0.1635	0.0034
<i>Dkk2</i>	0.1416	0.0114	0.1184	0.0345
<i>Bglap1</i>	0.1409	0.0118	0.2840	<0.0001
<i>Wnt5b</i>	0.1301	0.0201	0.1267	0.0236
<i>Ctnnb1</i>	0.1276	0.0226	0.1035	0.0648
<i>Spp1</i>	-0.1138	0.0423	-0.0959	0.0874
<i>Kl</i>	0.0963	0.0860	0.1181	0.0349
<i>Spp2</i>	0.0598	0.2871	0.1143	0.0412
<i>Bmp4</i>	0.0994	0.0762	0.0906	0.1064
<i>Ahsg</i>	0.0614	0.2745	0.0382	0.4962
<i>Ggcx</i>	0.0527	0.3486	0.0690	0.2197
<i>Pthlh</i>	0.0477	0.3959	-0.0087	0.8768
<i>Runx2</i>	0.0332	0.5548	0.0360	0.5220
<i>Sox9</i>	0.0188	0.7401	0.0284	0.6150
<i>Mglap</i>	0.0185	0.7418	0.0424	0.4510

Correlation coefficient (r) and P value for Pearson (P_p) and nonparametric Spearman (P_s) analyses are shown. Significant P values ($P < 0.05$) and genes with significant P values in either Pearson or Spearman analyses are in bold letters. Genes with statistically significant correlation with *Abcc6* expression after Bonferroni multiple test correction are indicated (*). *Tnfa*, tumor necrosis factor; *Lrp5*, low-density lipoprotein receptor-related protein 5; *Lrp6*, low-density lipoprotein receptor-related protein 6; *Sfrp1*, secreted frizzled-related protein 1; *Wnt3a*, wingless-related MMTV integration site 3A; *Wnt5b*, wingless-related MMTV integration site 5B; *Wnt7a*, wingless-related MMTV integration site 7A; *Dkk1*, dickkopf homolog 1; *Dkk2*, dickkopf homolog 1. For a description of other genes, see Table 5.