

Supplementary Table 2: Adhesion genes (from Fig. 6A) categorized by a continuous downregulation across disease progression. Bone Marrow Plasma Cell (BMPC), Monoclonal Gammopathy of Undetermined Significance (MGUS), Smoldering Multiple Myeloma (sMM), Multiple Myeloma (MM), Multiple Myeloma Relapse (MMR). p-adj. = adjusted p-values (Benj.-Hoch.).

Regulation during disease progression	Gene	Ensemble ID	Progression Free / Overall Survival	Better Prognosis with high/low expression	Association of expression with survival	
					[p-unc]	[p-adj]
FALSE	ADAMTS1	ENSG00000154734	Prog. Free	low	0.031875	0.084719
			Overall	low	0.048755	0.120104
	ADAMTS2	ENSG00000087116	Prog. Free	high	0.63795	0.767059
			Overall	high	0.811174	0.890528
	BGN	ENSG00000182492	Prog. Free	high	0.38065	0.533967
			Overall	high	0.279004	0.426961
	CAVIN1	ENSG00000177469	Prog. Free	high	0.407479	0.548739
			Overall	high	0.210903	0.3492
	CCDC80	ENSG00000091986	Prog. Free	high	0.002038	0.015833
			Overall	high	0.023743	0.077356
	CCN1	ENSG00000142871	Prog. Free	high	0.285568	0.443729
			Overall	low	0.931563	0.961309
	CCN2	ENSG00000118523	Prog. Free	high	0.030562	0.083425
			Overall	high	0.002889	0.024263
	CCNE2	ENSG00000175305	Prog. Free	low	0.012138	0.046195
			Overall	low	0.000534	0.008638
	CDH11	ENSG00000140937	Prog. Free	high	0.413948	0.550115
			Overall	high	0.044627	0.117163
	CEMIP	ENSG00000103888	Prog. Free	high	0.798984	0.877146
			Overall	low	0.287022	0.428378
	COL12A1	ENSG00000111799	Prog. Free	high	0.340978	0.491983
			Overall	low	0.829338	0.900679
	COL16A1	ENSG00000084636	Prog. Free	low	0.281112	0.443629
			Overall	low	0.162895	0.293792
	COL4A1	ENSG00000187498	Prog. Free	high	0.040286	0.098969
			Overall	high	0.009472	0.039863
	COL4A2	ENSG00000134871	Prog. Free	high	0.0124	0.046195
			Overall	high	0.175895	0.3063
	COL5A1	ENSG00000130635	Prog. Free	high	0.368403	0.524066
			Overall	low	0.860512	0.914414
	COL6A3	ENSG00000163359	Prog. Free	low	0.103315	0.208697
			Overall	low	0.197836	0.336625
	COL8A1	ENSG00000144810	Prog. Free	high	0.680745	0.807636
			Overall	high	0.289334	0.428378
	CREB3L1	ENSG00000157613	Prog. Free	low	0.165978	0.310441
			Overall	low	0.047989	0.120104
	EDIL3	ENSG00000164176	Prog. Free	high	0.863476	0.899083
			Overall	low	0.496663	0.611744

	F3	ENSG00000117525	Prog. Free	high	0.091858	0.197397
			Overall	high	0.009177	0.039863
	FBN1	ENSG00000166147	Prog. Free	high	0.472247	0.603376
			Overall	low	0.401546	0.533633
	FLNC	ENSG00000128591	Prog. Free	high	0.18539	0.329735
			Overall	low	0.474071	0.598515
	FN1	ENSG00000115414	Prog. Free	high	0.843432	0.896701
			Overall	low	0.421268	0.552573
	FOSB	ENSG00000125740	Prog. Free	low	0.585138	0.712035
			Overall	high	0.942273	0.961309
	GJA1	ENSG00000152661	Prog. Free	high	0.333512	0.491983
			Overall	low	0.34262	0.467631
	GREM1	ENSG00000166923	Prog. Free	high	0.457976	0.59302
			Overall	low	0.591104	0.685623
	HBEGF	ENSG00000113070	Prog. Free	low	0.145103	0.281656
			Overall	low	0.051592	0.124067
	HTRA1	ENSG00000166033	Prog. Free	high	0.01203	0.046195
			Overall	high	0.040407	0.116603
	IGFBP3	ENSG00000146674	Prog. Free	high	0.248011	0.410641
			Overall	low	0.841566	0.904236
	IGFBP7	ENSG00000163453	Prog. Free	low	0.009533	0.043766
			Overall	low	0.024942	0.078722
	ITGA11	ENSG00000137809	Prog. Free	high	0.97438	0.97438
			Overall	low	0.966513	0.976178
	KLF11	ENSG00000172059	Prog. Free	low	0.229416	0.39273
			Overall	low	0.060892	0.133697
	LAMB1	ENSG00000091136	Prog. Free	high	0.477921	0.603376
			Overall	high	0.604163	0.685623
	LOX	ENSG00000113083	Prog. Free	low	0.748901	0.840433
			Overall	low	0.035028	0.104055
	MMP2	ENSG00000087245	Prog. Free	high	2.29E-05	0.002316
			Overall	high	0.044615	0.117163
	NFKBIZ	ENSG00000144802	Prog. Free	high	0.725256	0.832396
			Overall	high	0.310216	0.441293
	NR4A1	ENSG00000123358	Prog. Free	high	0.0214	0.065497
			Overall	high	0.060042	0.133697
	NR4A2	ENSG00000153234	Prog. Free	high	0.275313	0.441375
			Overall	high	0.11176	0.217072
	OSMR	ENSG00000145623	Prog. Free	high	0.000567	0.007153
			Overall	high	0.01287	0.046422
	PDGFRB	ENSG00000113721	Prog. Free	high	0.691005	0.807636
			Overall	high	0.599357	0.685623
	POSTN	ENSG00000133110	Prog. Free	low	0.858041	0.899083
			Overall	low	0.496348	0.611744
	PTX3	ENSG00000163661	Prog. Free	high	0.020943	0.065497
			Overall	high	0.045241	0.117163

	PXDN	ENSG00000130508	Prog. Free	low	0.403966	0.548739
			Overall	low	0.172495	0.305648
	SERPINE1	ENSG00000106366	Prog. Free	low	0.543711	0.669693
			Overall	high	0.869146	0.914414
	SERPINH1	ENSG00000149257	Prog. Free	low	0.001825	0.015833
			Overall	low	0.004399	0.026138
	SIX1	ENSG00000126778	Prog. Free	high	0.784446	0.870649
			Overall	high	0.592089	0.685623
	SMAD3	ENSG00000166949	Prog. Free	low	0.027411	0.0791
			Overall	low	0.016437	0.055338
	SPARC	ENSG00000113140	Prog. Free	high	0.073989	0.162455
			Overall	high	0.244069	0.391285
	SPOCK1	ENSG00000152377	Prog. Free	low	0.531524	0.662765
			Overall	low	0.303273	0.437579
	SULF1	ENSG00000137573	Prog. Free	high	0.190403	0.331564
			Overall	high	0.388706	0.523458
	THBS2	ENSG00000186340	Prog. Free	low	0.318676	0.480392
			Overall	high	0.292654	0.428378
	VPS37B	ENSG00000139722	Prog. Free	low	0.1478	0.281656
			Overall	low	0.199975	0.336625
TRUE	ACTN1	ENSG00000072110	Prog. Free	high	0.170661	0.313396
			Overall	high	0.007728	0.035478
	ADAM12	ENSG00000148848	Prog. Free	high	0.019179	0.062487
			Overall	high	0.081847	0.168704
	AEBP1	ENSG00000106624	Prog. Free	high	0.010829	0.046195
			Overall	high	0.057228	0.133697
	AXL	ENSG00000167601	Prog. Free	high	0.001496	0.015105
			Overall	high	3.64E-05	0.00184
	CD99	ENSG00000002586	Prog. Free	low	0.916833	0.941333
			Overall	low	0.083964	0.169607
	COL1A1	ENSG00000108821	Prog. Free	high	0.000303	0.004367
			Overall	high	0.000593	0.008638
	COL1A2	ENSG00000164692	Prog. Free	high	0.298023	0.456066
			Overall	high	0.566636	0.673297
	COL3A1	ENSG00000168542	Prog. Free	high	0.025985	0.07719
			Overall	high	0.010794	0.042917
	COL5A2	ENSG00000204262	Prog. Free	low	0.74501	0.840433
			Overall	low	0.99967	0.99967
	COL6A1	ENSG00000142156	Prog. Free	high	0.011972	0.046195
			Overall	high	0.011048	0.042917
	COL6A2	ENSG00000142173	Prog. Free	high	0.261528	0.426037
			Overall	high	0.3235	0.447582
	CXCL12	ENSG00000107562	Prog. Free	high	0.000116	0.002927
			Overall	high	0.000648	0.008638
	CXCL8	ENSG00000169429	Prog. Free	low	0.839416	0.896701
			Overall	high	0.224913	0.366391

	CYP1B1	ENSG00000138061	Prog. Free	high	0.008641	0.041735
			Overall	high	0.000684	0.008638
	DCN	ENSG00000011465	Prog. Free	high	0.004827	0.030473
			Overall	high	0.000247	0.008327
	DUSP1	ENSG00000120129	Prog. Free	high	0.695686	0.807636
			Overall	high	0.454061	0.583718
	FBLN1	ENSG00000077942	Prog. Free	high	0.002676	0.019305
			Overall	high	0.003734	0.026138
	GNB3	ENSG00000111664	Prog. Free	high	0.003748	0.025234
			Overall	high	0.005734	0.03048
	GSTP1	ENSG00000084207	Prog. Free	high	0.972219	0.97438
			Overall	low	0.668091	0.749746
	IGFBP4	ENSG00000141753	Prog. Free	high	0.008677	0.041735
			Overall	high	0.007089	0.034093
	IL1R1	ENSG00000115594	Prog. Free	high	0.126318	0.250159
			Overall	high	0.256501	0.398563
	ITGA5	ENSG00000161638	Prog. Free	high	0.094893	0.19967
			Overall	high	0.159113	0.29219
	ITGAX	ENSG00000140678	Prog. Free	high	0.006717	0.036021
			Overall	high	0.003123	0.024263
	ITGB5	ENSG00000082781	Prog. Free	low	0.436018	0.57192
			Overall	high	0.539497	0.648681
	LAMA4	ENSG00000112769	Prog. Free	high	0.018518	0.062345
			Overall	high	0.104178	0.206314
	LAMB2	ENSG00000172037	Prog. Free	high	0.015472	0.053885
			Overall	high	0.001354	0.013865
	LOXL2	ENSG00000134013	Prog. Free	high	0.808671	0.878235
			Overall	low	0.933264	0.961309
	LRP1	ENSG00000123384	Prog. Free	high	0.006458	0.036021
			Overall	high	0.000434	0.008638
	LTBP2	ENSG00000119681	Prog. Free	high	9.03E-05	0.002927
			Overall	high	0.011656	0.043603
	LUM	ENSG00000139329	Prog. Free	high	0.05158	0.118399
			Overall	high	0.065084	0.139862
	MAP3K8	ENSG00000107968	Prog. Free	high	0.000958	0.010755
			Overall	high	0.01617	0.055338
	MAP4K4	ENSG00000071054	Prog. Free	high	0.041155	0.098969
			Overall	high	0.31743	0.445284
	MFAP5	ENSG00000197614	Prog. Free	high	0.000243	0.004094
			Overall	high	0.004269	0.026138
	MMP14	ENSG00000157227	Prog. Free	high	6.93E-05	0.002927
			Overall	high	0.006691	0.033787
	MXRA5	ENSG00000101825	Prog. Free	high	0.034865	0.088035
			Overall	high	0.033819	0.103505
	MYL9	ENSG00000101335	Prog. Free	high	0.000146	0.00295
			Overall	high	1.56E-05	0.001572

	NRP1	ENSG00000099250	Prog. Free	high	0.001888	0.015833
			Overall	high	0.002212	0.020312
	PAPLN	ENSG00000100767	Prog. Free	high	0.034256	0.088035
			Overall	high	0.159113	0.29219
	TEX14	ENSG00000121101	Prog. Free	high	0.237488	0.399771
			Overall	low	0.518581	0.631044
	TGFB1	ENSG00000120708	Prog. Free	high	0.102621	0.208697
			Overall	high	0.004299	0.026138
	TGM2	ENSG00000198959	Prog. Free	high	0.058634	0.131601
			Overall	high	0.119621	0.227958
	THBS1	ENSG00000137801	Prog. Free	high	0.39286	0.543545
			Overall	high	0.456572	0.583718
	TNC	ENSG00000041982	Prog. Free	high	0.012806	0.046195
			Overall	high	0.004752	0.026663
	TNS1	ENSG00000079308	Prog. Free	high	0.338737	0.491983
			Overall	high	0.757617	0.840872
	TPM1	ENSG00000140416	Prog. Free	high	0.029263	0.0821
			Overall	high	0.001373	0.013865
	TUBA1A	ENSG00000167552	Prog. Free	low	0.006776	0.036021
			Overall	low	0.042929	0.117163
	TUBB6	ENSG00000176014	Prog. Free	low	0.186088	0.329735
			Overall	low	0.060071	0.133697
	VCAN	ENSG00000038427	Prog. Free	high	0.042782	0.100487
			Overall	high	0.080757	0.168704
	ZFP36L1	ENSG00000185650	Prog. Free	high	0.922693	0.941333
			Overall	high	0.24957	0.393852