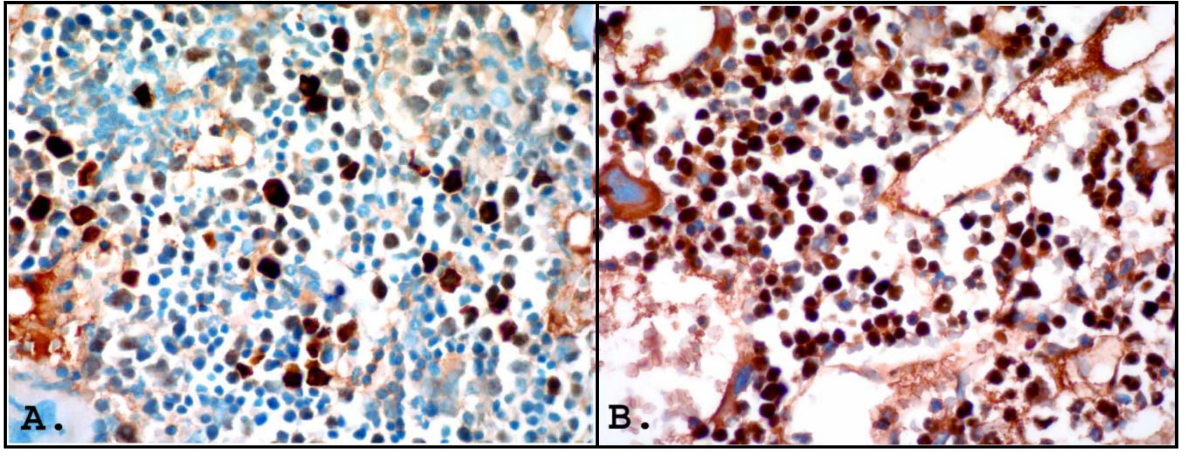
Supplemental table1: qBiomarker™ Somatic Mutation PCR Array Human Myelodysplastic Syndromes (n=6)										
Gene	COSMIC ID	nt change	AA change	NON-MDSC						MDSC N=6
				Pt 1	Pt 2	Pt 3	Pt 4	Pt 5	Pt 6	
ASXL1	36166	c.1772_1773insA	p.Y591fs*1	-	-	-	-	-	-	-
ASXL1	41716	c.1888_1909del22	p.H630fs*66	-	-	-	-	-	-	-
ASXL1	41717	c.2302C>T	p.Q768*	-	-	-	-	-	-	-
ASXL1	52930	c.2324T>G	p.L775*	-	-	-	-	-	-	-
ASXL1	41715	c.3202C>T	p.R1068*	-	-	-	-	-	-	-
CBL	34052	c.1111T>C	p.Y371H	-	-	-	-	-	-	-
CBL	34055	c.1139T>C	p.L380P	-	+	+	+	+	+	-
CBL	34057	c.1150T>C	p.C384R	-	+	+	+	-	+	-
CBL	34077	c.1259G>A	p.R420Q	-	-	-	-	+	-	-
DNMT3A	53042	c.2644C>T	p.R882C	-	-	-	-	-	-	-
DNMT3A	87007	c.2711C>T	p.P904L	-	-	-	-	-	-	-
EZH2	37031	c.1936T>A	p.Y646N	-	+	+	+	-	+	-
EZH2	37029	c.1937A>C	p.Y646S	-	+	+	+	-	+	-
EZH2	37028	c.1937A>T	p.Y646F	-	+	+	+	+	+	-
IDH1	28748	c.394C>A	p.R132S	-	-	-	-	-	-	-
IDH1	28749	c.394C>G	p.R132G	-	+	+	+	+	+	-
IDH1	28747	c.394C>T	p.R132C	-	+	-	-	+	+	-
IDH1	28746	c.395G>A	p.R132H	-	+	+	+	-	-	-
IDH1	28750	c.395G>T	p.R132L	-	+	+	+	+	+	-
IDH2	41877	c.418C>T	p.R140W	-	+	+	+	-	-	-
IDH2	41590	c.419G>A	p.R140Q	+	-	-	-	+	+	-
IDH2	41875	c.419G>T	p.R140L	-	+	+	+	+	+	-
IDH2	34039	c.514A>T	p.R172W	+	+	+	+	+	+	-
IDH2	33733	c.515G>A	p.R172K	-	+	+	+	+	+	-
IDH2	33732	c.515G>T	p.R172M	-	+	+	+	-	+	-
IDH2	34090	c.516G>T	p.R172S	-	-	+	-	-	-	-
NRAS	580	c.181C>A	p.Q61K	-	+	+	+	+	+	-
NRAS	584	c.182A>G	p.Q61R	-	+	+	+	-	+	-
NRAS	583	c.182A>T	p.Q61L	-	-	-	-	-	-	-
NRAS	586	c.183A>C	p.Q61H	-	+	+	+	+	+	-
NRAS	585	c.183A>T	p.Q61H	-	-	-	-	+	-	-
NRAS	563	c.34G>A	p.G12S	-	+	-	-	-	+	-
NRAS	562	c.34G>T	p.G12C	-	+	+	+	+	-	-
NRAS	564	c.35G>A	p.G12D	-	-	+	-	+	+	-
NRAS	565	c.35G>C	p.G12A	-	+	-	+	+	+	-
NRAS	566	c.35G>T	p.G12V	-	+	+	+	+	+	-
NRAS	569	c.37G>C	p.G13R	-	+	+	+	+	+	-
NRAS	570	c.37G>T	p.G13C	-	+	+	+	+	+	-
NRAS	573	c.38G>A	p.G13D	-	-	-	-	-	-	-
NRAS	574	c.38G>T	p.G13V	-	+	-	+	+	+	-
RUNX1	24756	c.167T>C	p.L56S	-	+	+	-	-	+	-
RUNX1	24736	c.319C>T	p.R107C	-	+	+	+	-	+	-
RUNX1	24769	c.496C>T	p.R166*	-	-	-	-	-	-	-

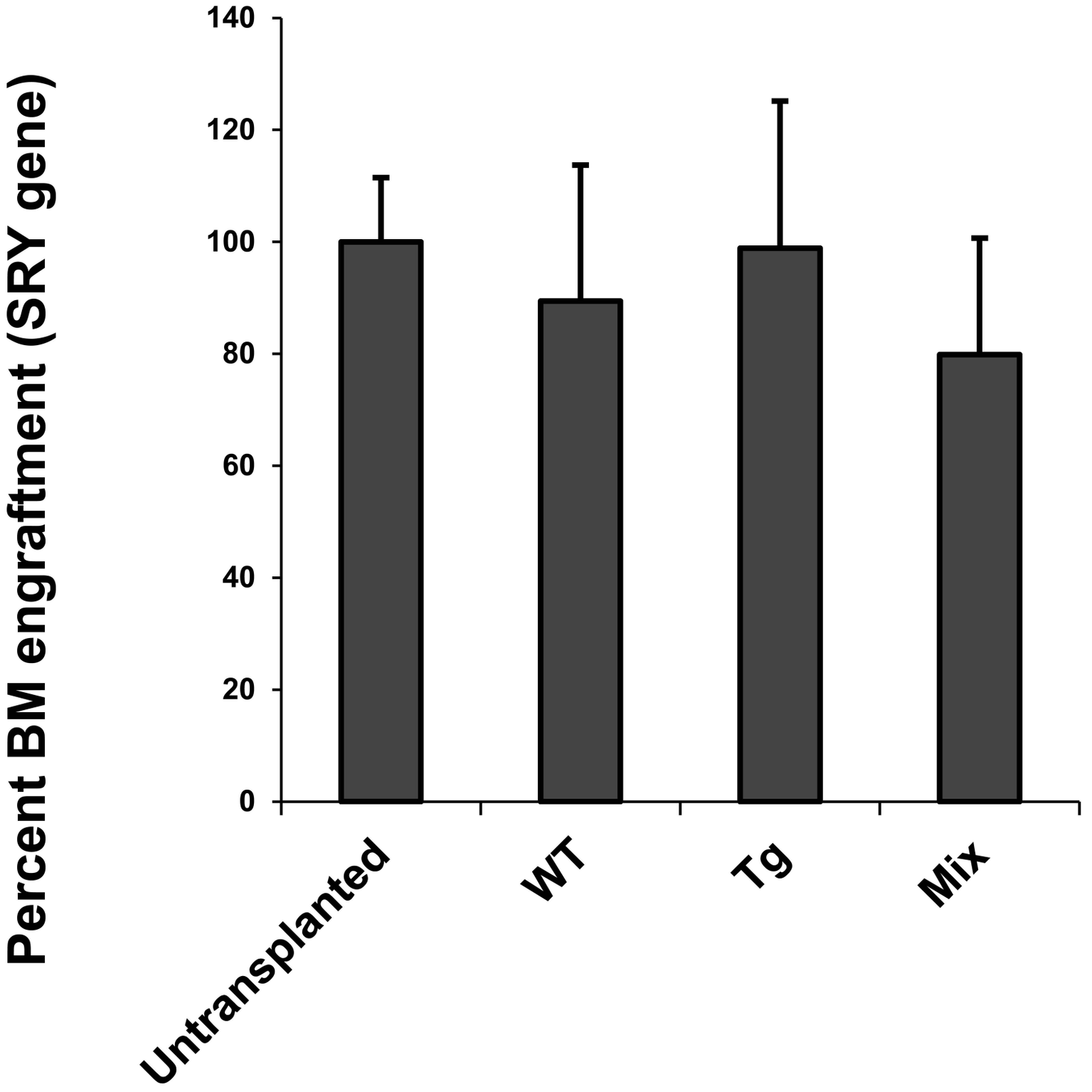
RUNX1	24721	c.592G>A	p.D198N	-	-	-	-	-	-	-
RUNX1	24799	c.593A>G	p.D198G	-	-	-	-	+	-	-
RUNX1	24805	c.602G>A	p.R201Q	-	+	-	+	-	-	-
RUNX1	24731	c.611G>A	p.R204Q	-	-	-	+	+	-	-
SF3B1	110693	c.1866G>T	p.E622D	-	-	-	-	-	-	-
SF3B1	110695	c.1874G>T	p.R625L	-	-	-	-	-	-	-
SF3B1	131560	c.1984C>G	p.H662D	-	-	-	-	-	-	-
SF3B1	130416	c.1986C>A	p.H662Q	-	-	-	-	-	-	-
SF3B1	110692	c.1986C>G	p.H662Q	-	-	-	-	-	-	-
SF3B1	110694	c.1996A>G	p.K666E	-	-	-	-	-	-	-
SRSF2	98000028	c.284C>A	P95H	-	+	+	+	+	+	-
SRSF2	98000029	c.284C>T	P95L	-	+	+	+	+	-	-
SRSF2	98000030	c.284C>G	P95R	-	+	+	+	+	+	-
TET2	41644	c.1648C>T	p.R550*	-	+	+	-	-	-	-
TET2	43417	c.2746C>T	p.Q916*	-	-	-	-	-	-	-
TP53	10648	c.524G>A	p.R175H	-	-	-	-	-	-	-
TP53	10662	c.743G>A	p.R248Q	-	+	+	+	-	-	-
TP53	10660	c.818G>A	p.R273H	-	-	-	-	+	-	-
TP53	10656	c.742C>T	p.R248W	-	-	-	-	-	-	-
TP53	10659	c.817C>T	p.R273C	-	-	-	-	+	-	-
TP53	10704	c.844C>T	p.R282W	-	-	-	-	-	-	-
TP53	10817	c.747G>T	p.R249S	-	+	+	+	+	+	-
TP53	6932	c.733G>A	p.G245S	-	-	-	-	+	-	-
TP53	10758	c.659A>G	p.Y220C	-	+	+	-	+	-	-
TP53	10654	c.637C>T	p.R213*	-	-	-	-	-	-	-
TP53	10670	c.469G>T	p.V157F	-	-	-	+	-	-	-
TP53	10705	c.586C>T	p.R196*	-	-	-	+	-	+	-
TP53	10645	c.527G>T	p.C176F	-	-	+	+	-	+	-
TP53	10889	c.536A>G	p.H179R	-	+	+	+	-	+	-
TP53	10808	c.488A>G	p.Y163C	-	+	+	+	-	-	-
TP53	10722	c.853G>A	p.E285K	-	+	-	-	-	+	-
TP53	43606	c.734G>A	p.G245D	-	+	+	+	+	-	-
TP53	10779	c.818G>T	p.R273L	-	+	+	+	+	+	-
TP53	10725	c.701A>G	p.Y234C	+	+	+	+	-	+	-
U2AF35	98000031	c.470A>C	Q157P	+	+	+	+	-	+	-
U2AF35	98000032	c.470A>G	Q157R	-	+	+	+	-	+	-
U2AF35	98000033	c.101C>T	S34F	-	-	-	-	-	-	-
U2AF35	98000034	c.101C>A	S34Y	+	+	+	+	-	+	-
DNMT3A	99000100	copy_number	copy_number	-	-	-	-	-	-	-

Sample was fresh and sorted prior to genomic DNA isolation. According to the manufacturer's analysis description: the raw CT for a given mutation assay in a test sample is compared with a predefined CT cutoff. Based on the difference, the mutation can be considered as "Present" (+), "Borderline" (-/+), or "Absent" (-).

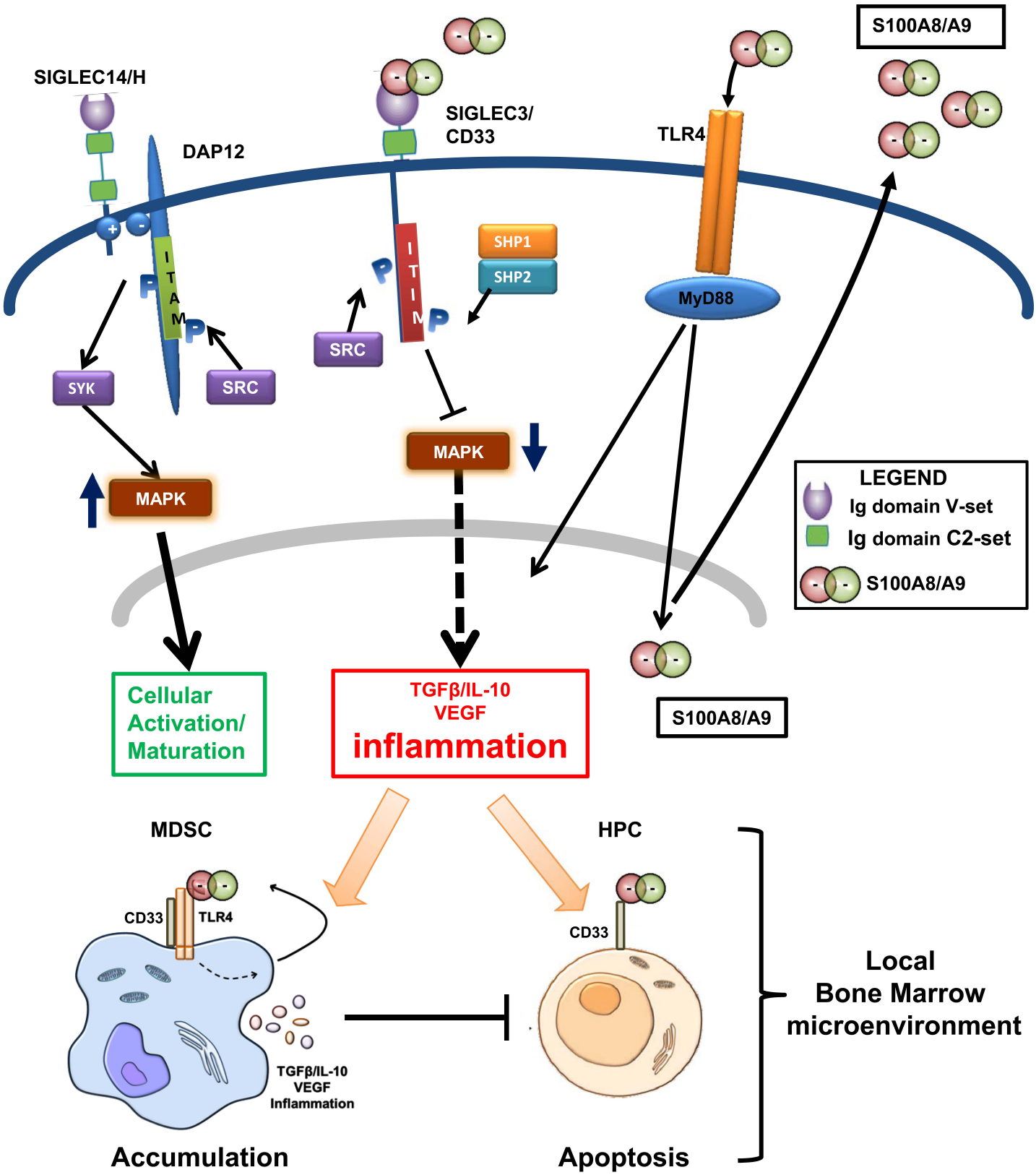
Supplemental Fig. 1



Supplemental Fig. 2



Supplemental figure 3



Supplementary Fig. 4