

Supplemental data SD1: RT-PCR gene expression analysis and reference gene variation

Figure SD1a: SH2B3 relative expression (normalized to GAPDH) at time point pre-OP correlated to relative left ventricular ejection fraction (Δ LVEF) relative longitudinal axis strain (Δ LAS) and relative maximum upslope epicardial as well as endocardial at day 180/0 (normalized to pre-OP) for Non-responder and Responder; Mean \pm SEM; * $P \leq 0.001$, ** $P=0.024$ (t-test); *** $P=0.015$, **** $P=0.038$ (Mann-Whitney Rank Sum test) compared to Non-responder

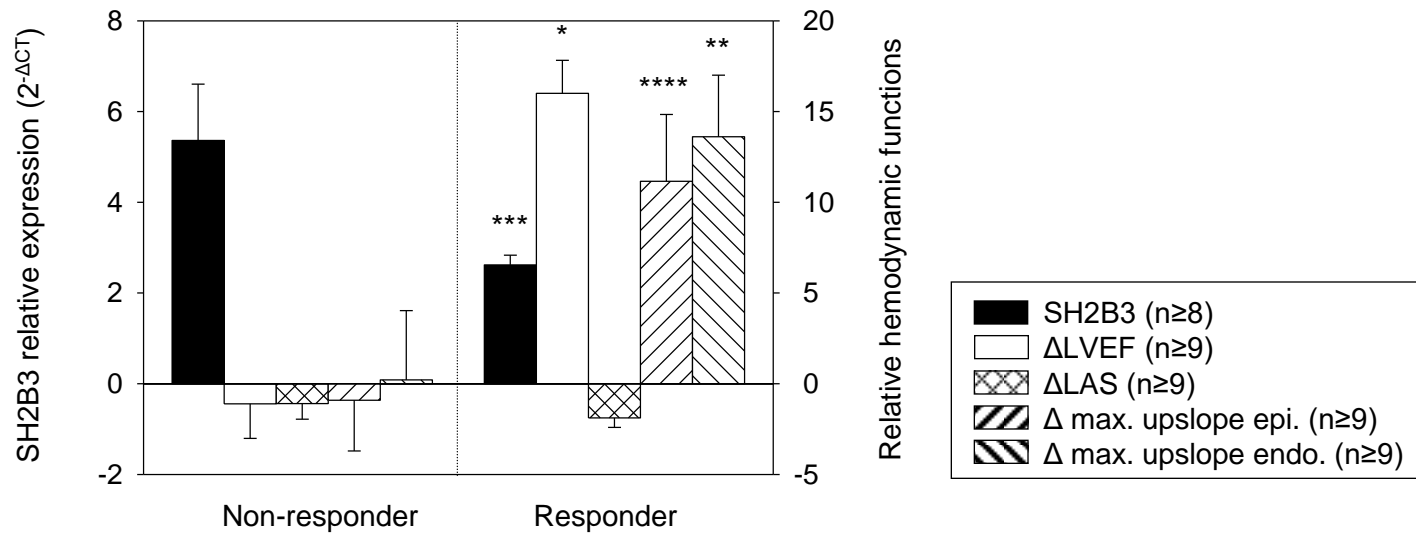


Figure SD1b: Correlation between SH2B3 relative expression (normalized to GAPDH) and circulating mononuclear cells (MNC) in peripheral blood for Non-responder and Responder at time point pre-OP; Mean \pm SEM; * $P=0.037$ (t-test); ** $P=0.041$, *** $P=0.015$, **** $P=0.006$ (Mann-Whitney Rank Sum test) compared to Non-responder

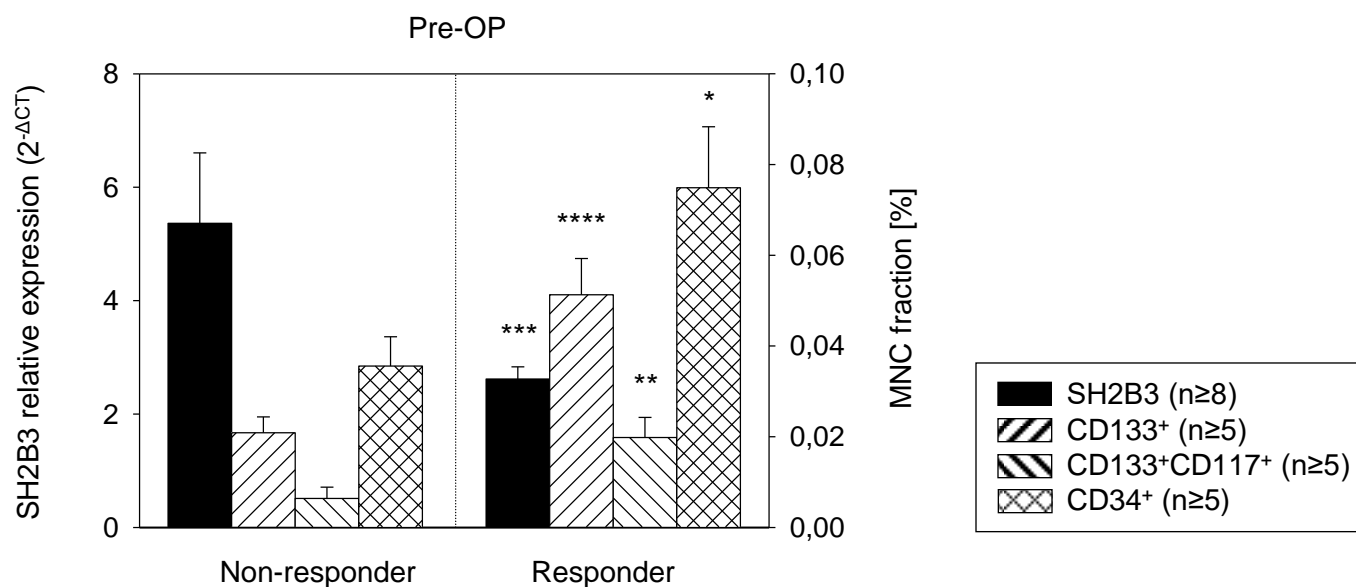


Figure SD1c: SH2B3 relative expression (normalized to POLR2A) at time point pre-OP correlated to relative left ventricular ejection fraction (Δ LVEF) relative longitudinal axis strain (Δ LAS) and relative maximum upslope epicardial as well as endocardial at day 180/0 (normalized to pre-OP) for Non-responder and Responder; Mean \pm SEM; * $P \leq 0.001$, ** $P = 0.024$ (t-test); *** $P = 0.038$ (Mann-Whitney Rank Sum test) compared to Non-responder

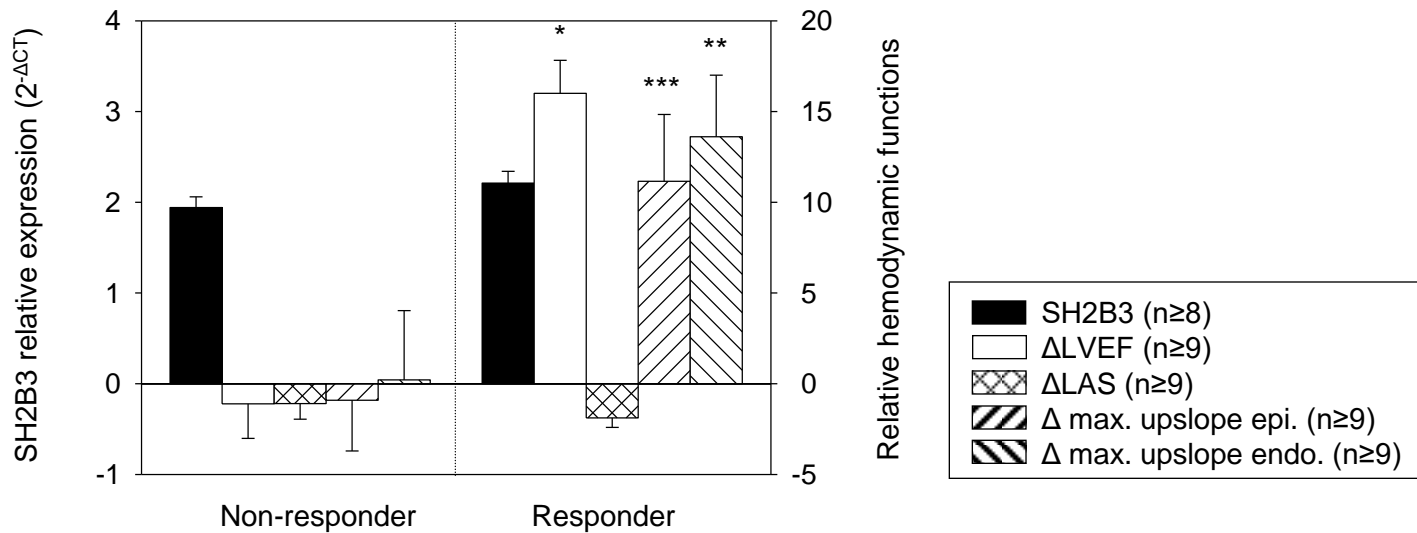


Figure SD1d: Correlation between SH2B3 relative expression (normalized to POLR2A) and circulating mononuclear cells (MNC) in peripheral blood for Non-responder and Responder at time point pre-OP; Mean \pm SEM; * $P = 0.037$ (t-test); ** $P = 0.041$, *** $P = 0.006$ (Mann-Whitney Rank Sum test) compared to Non-responder

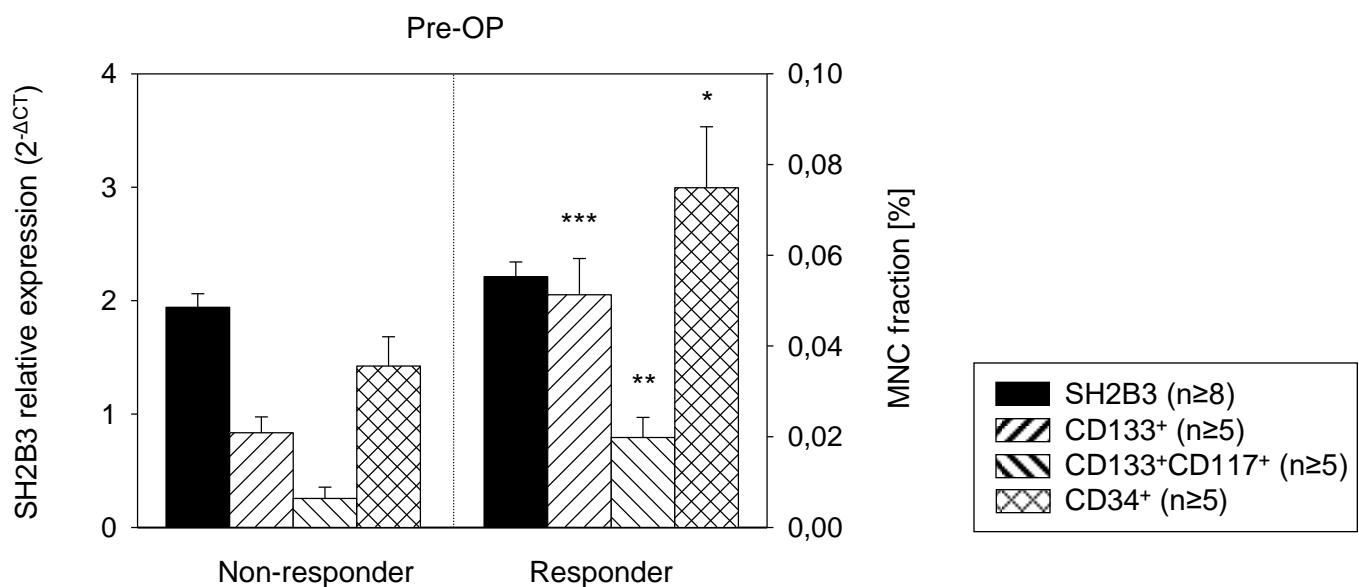


Figure SD1e: SH2B3 relative expression (normalized to GAPDH/POLR2A) at time point pre-OP correlated to relative left ventricular ejection fraction (Δ LVEF) relative longitudinal axis strain (Δ LAS) and relative maximum upslope epicardial as well as endocardial at day 180/0 (normalized to pre-OP) for Non-responder and Responder; Mean \pm SEM; * $P \leq 0.001$, ** $P = 0.024$ (t-test); *** $P = 0.038$ (Mann-Whitney Rank Sum test) compared to Non-responder

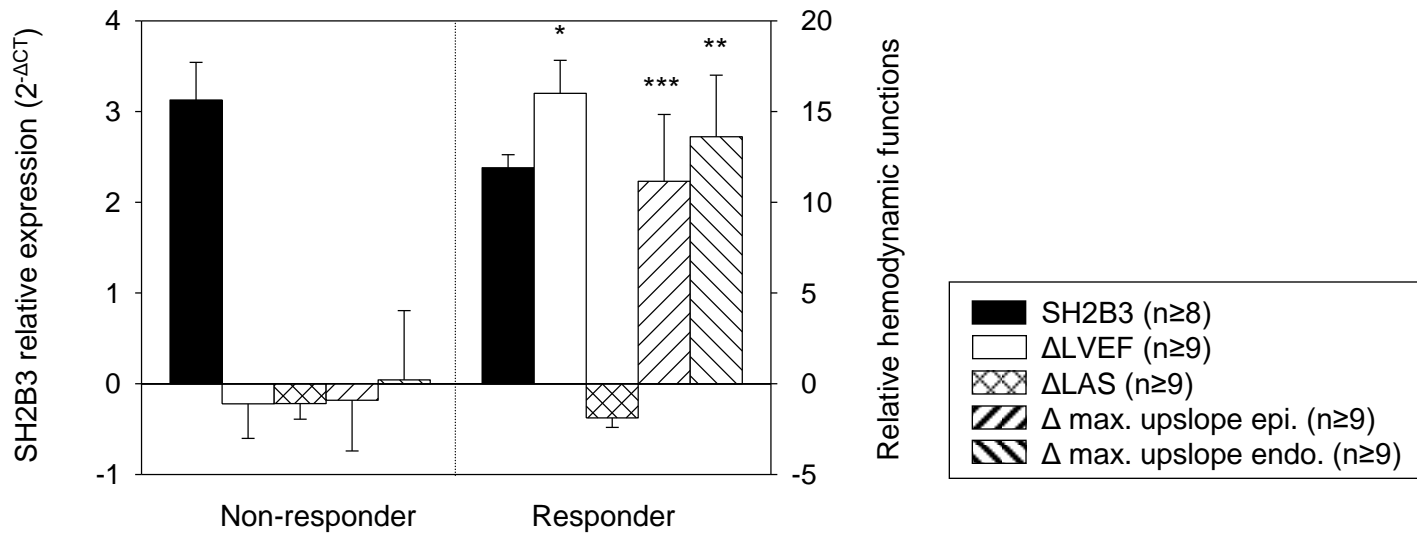
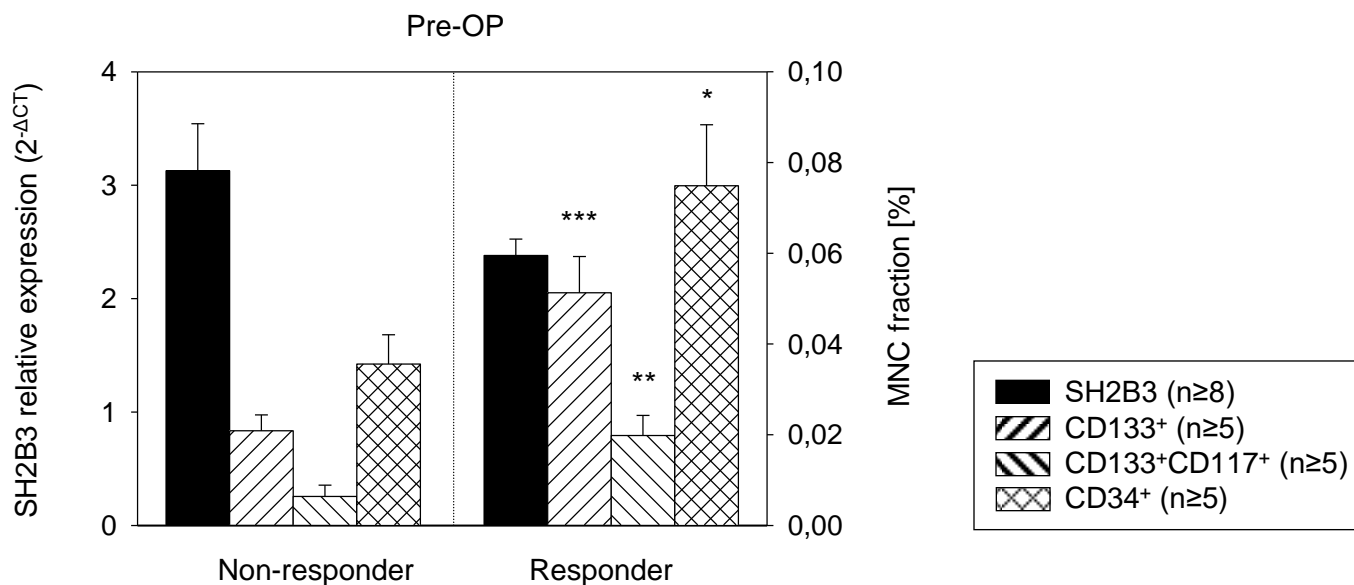


Figure SD1f: Correlation between SH2B3 relative expression (normalized to GAPDH/POLR2A) and circulating mononuclear cells (MNC) in peripheral blood for Non-responder and Responder at time point pre-OP; Mean \pm SEM; * $P = 0.037$ (t-test); ** $P = 0.041$, *** $P = 0.006$ (Mann-Whitney Rank Sum test) compared to Non-responder



RT-PCR gene expression and RNAseq variant calling GAPDH and POLR2a/RBP1

Non-responder

	2- Δ Cr (Gapdh)	2- Δ Cr (Polr2a)	2- Δ Cr (both)
RTC099	3,287321565	1,38938763	2,13713919
RTC106	12,50194899	2,290361109	5,351072579
RTC116	8,488799152	2,084140723	4,206168327
RTC119	3,085144871	2,270275981	2,646531749
RTC132	2,180831893	1,891915283	2,031243261
RTC137	4,999938059	1,975344963	3,142706232
RTC140	2,95695642	1,496807647	2,103804882
RTC146	5,409452789	2,133765437	3,397425996

chr3	139240014 A	G	69,92 PASS	RTC099 RTC137 3 RTC140	intronic	RBP1
chr12	6643927 T	G	44,77 PASS	1 RTC134	intronic	GAPDH
chr12	6643991 C	G	1096,21 PASS	RTC099 RTC101_0 RTC106 RTC108_0 RTC125_0 RTC132_0 RTC134 RTC135_0 9 RTC137	exonic	GAPDH
chr12	6644256 T	A	146,77 PASS	RTC111_0 2 RTC125_0	intronic	GAPDH
chr12	6644696 T	G	99,27 PASS	RTC108_0 RTC111_0 RTC125_0 4 RTC132_0	intronic	GAPDH
chr12	6644722 A	G	93,27 PASS	RTC108_0 RTC111_0 RTC112_0 RTC125_0 5 RTC132_0	intronic	GAPDH
chr12	6644781 T	C	124,77 PASS	RTC108_0 RTC111_0 RTC112_0 4 RTC125_0	intronic	GAPDH
chr12	6645565 T	C	77,27 PASS	RTC125_0 2 RTC135_0	intronic	GAPDH
chr12	6646299 C	T	107,77 PASS	RTC121_0 2 RTC150_0	exonic	GAPDH
chr12	6646320 T	C	1042,27 PASS	RTC106 RTC108_0 RTC111_0 RTC125_0 RTC132_0 RTC134 RTC135_0 8 RTC137	exonic	GAPDH
chr12	6647109 T	C	1203,64 PASS	RTC106 RTC108_0 RTC111_0 RTC125_0 RTC132_0 RTC134 RTC135_0 8 RTC137	exonic	GAPDH
chr12	6647453 G	T	149,17 PASS	RTC111_0 RTC125_0 RTC132_0 RTC134 5 RTC135_0	exonic	GAPDH
chr12	6647531 T	C	29,77 PASS	1 RTC116	exonic	GAPDH

Responder

RT-PCR gene expression and RNAseq variant calling GAPDH and POLR2a/RBP1

Responder	2 ^{-ΔCr} (Gapdh)	2 ^{-ΔCr} (Polr2a)	2 ^{-ΔCr} (both)
RTC110	2,739256391	3,024732333	2,878457464
RTC113	1,205470294	1,877958347	1,504600612
RTC114	2,813165625	2,188873566	2,481464059
RTC115	2,194274357	2,142232953	2,168097515
RTC117	1,832204194	2,71494396	2,230320988
RTC124	2,37027884	2,479223275	2,424139119
RTC127	2,010621437	1,444565713	1,704251974
RTC130	2,177702963	1,701066378	1,924686284
RTC131	2,089402796	2,069360217	2,079357358
RTC133	2,740479523	1,926853786	2,297934582
RTC139	3,534871612	2,146324648	2,754447689
RTC143	3,70166428	2,234978812	2,876306874
RTC145	3,108885923	1,844188427	2,394445957
RTC136	4,142886486	3,15525961	3,615505829

chr3	139240014 A	G	186,44 PASS	RTC113		
chr3	139240018 C	T	31,77 PASS	2RTC114	intronic	RBP1
				1RTC114	intronic	RBP1
chr12	6643927 T	G	37,77 PASS	1 RTC098_0	intronic	GAPDH
				RTC095_0		
				RTC105_0		
				RTC107_0		
				RTC117_1		
				RTC127		
				RTC131_0		
				RTC139		
chr12	6643991 C	G	819,21 PASS	9RTC148_0	exonic	GAPDH
				RTC098_0		
				RTC105_0		
chr12	6644256 T	A	150,36 PASS	5RTC148_0	intronic	GAPDH
				RTC098_0		
chr12	6644696 T	G	152,77 PASS	3RTC117_1	intronic	GAPDH
				RTC107_0		
chr12	6644722 A	G	158,1 PASS	3RTC117_1	intronic	GAPDH
				RTC098_0		
chr12	6644781 T	C	149,37 PASS	5RTC148_0	intronic	GAPDH
				RTC095_0		
chr12	6645565 T	C	77,65 PASS	4RTC117_1	intronic	GAPDH
				RTC107_0		
chr12	6646299 C	T	90,27 PASS	2RTC148_0	exonic	GAPDH
				RTC123_0		
				RTC095_0		
				RTC098_0		
				RTC105_0		
				RTC107_0		
				RTC113		
				RTC115		
				RTC117_1		
				RTC139		
chr12	6646320 T	C	1252,87 PASS	10RTC148_0	exonic	GAPDH
				RTC095_0		
				RTC098_0		
				RTC105_0		
				RTC107_0		
				RTC113		
				RTC115		
				RTC117_1		
				RTC139		
chr12	6647109 T	C	1236,77 PASS	10RTC148_0	exonic	GAPDH
				RTC095_0		
				RTC098_0		
				RTC107_0		
				RTC113		
				RTC115		
				RTC117_1		
				RTC145_0		
chr12	6647453 G	T	126,77 PASS	8RTC148_0	exonic	GAPDH
				RTC098_0		
				RTC105_0		
				RTC107_0		
				RTC113		
				RTC115		
				RTC117_1		
				RTC145_0		