

Table S4. Fusions identified in MDA PCa PDX cohort

Gene.A	Gene.B	PDX	Data Source	Detection meth.	Chr.A	Pos.A	Chr.B	Pos.B	dir.A.B	
TMPRSS2	ETV4	175-6	WGS	bs.dl.lp	chr21	42867729	chr17	41632042	-+	
			RNAseq	df.fm.mp.th	chr21	42867729	chr17	41632042	-+	
		180-30	WGS	bs.dl.lp	chr21	42866568	chr17	41650089	-+	
			RNAseq	df.fm.mp.th	chr21	42866568	chr17	41650088	-+	
TMPRSS2	ERG	173-2	WGS	bs.lp	chr21	42872537	chr21	39863885	-+	
			RNAseq	df.fm.mp	chr21	42879877	chr21	39817544	-+	
		183-A	WGS	bs.lp	chr21	42860881	chr21	39871051	-+	
			RNAseq	df.fm.mp	chr21	42861434	chr21	39817544	-+	
		203-A	WGS	bs.lp	chr21	42860880	chr21	39871050	-+	
			RNAseq	df.fm.mp	chr21	42861434	chr21	39817544	-+	
		133-4	WGS	bs.lp	chr21	42872545	chr21	39860834	-+	
			RNAseq	df.fm.mp	chr21	42879877	chr21	39817544	-+	
		285-3	WGS	bs.lp	chr21	42875598	chr21	39900360	-+	
			RNAseq	df.fm.mp	chr21	42880008	chr21	39817544	-+	
		306-14	WGS	bs.lp	chr21	42859305	chr21	39871943	-+	
			RNAseq	df.fm.mp	chr21	42860321	chr21	39775631	-+	
		152-1	WGS	bs.lp	chr21	42874174	chr21	39861279	-+	
			RNAseq	df.fm.mp	chr21	42879877	chr21	39817544	-+	
		150-7	WGS	bs.lp	chr21	42873453	chr21	39862825	-+	
			RNAseq	df.mp	chr21	42848504	chr21	39865501	--	
		144-4	WGS	bs.lp	chr21	42872479	chr21	39884147	-+	
			RNAseq	fm	chr21	42879877	chr21	39817544	-+	
		144-13	WGS	bs.lp	chr21	42872479	chr21	39884147	--	
			\	\	\	\	\	\	\	*
320-1	WGS	bs.lp	chr21	42867291	chr21	39821458	-+			
	RNAseq	df.fm.mp	chr21	42870046	chr21	39817544	-+			
153-7	WGS	bs.lp	chr21	42873029	chr21	39859982	-+			
	RNAseq	df.fm.mp	chr21	42879877	chr21	39817544	-+			
163-A	WGS	bs.lp	chr21	42870627	chr21	39974760	-+			
	RNAseq	df.fm.mp	chr21	42879877	chr21	39956869	-+			
FOXA1	ETV1	250-15	WGS	dl	chr14	38060104	chr7	13973676	--	
			RNAseq	df.mp	chr14	38060113	chr7	13973666	--	
ETV1	FOXA1	250-15	WGS	bs.lp	chr7	13973676	chr14	38060114	--	
			RNAseq	th	chr7	13974515	chr14	38060606	--	
ACSL3	ETV1	177-B	WGS	bs.dl.lp	chr2	223750008	chr7	13975069	++	
			RNAseq	df.fm.mp.th	chr2	223725976	chr7	13971374	++	
ETV1	ACSL3	177-B	WGS	bs.dl	chr7	13975168	chr2	223750078	--	
			RNAseq	fm.mp	chr8	13975333	chr3	223752548	--	
SLC45A3	ELK4	117-9	WGS							
			RNAseq	df	chr1	205630989	chr1	205593019	-+	
		146-12	WGS							
			RNAseq	df	chr1	205630989	chr1	205593019	-+	
		153-7	WGS							
			RNAseq	df	chr1	205628617	chr1	205593019	-+	
		174-6	WGS							
			RNAseq	df	chr1	205628617	chr1	205593019	-+	
		175-6	WGS							
			RNAseq	df	chr1	205630989	chr1	205593019	-+	
		178-11	WGS							
			RNAseq	df	chr1	205630989	chr1	205593019	-+	
		183-A	WGS							
			RNAseq	df	chr1	205628617	chr1	205593019	-+	
		200-1	WGS							
			RNAseq	df	chr1	205630989	chr1	205593019	-+	
		203-A	WGS							
			RNAseq	df	chr1	205628617	chr1	205593019	-+	
306-14	WGS									
	RNAseq	df	chr1	205628506	chr1	205593072	-+			
250-15	WGS									
	RNAseq	df	chr1	205628617	chr1	205593019	-+			

* Determined by presence of an interstitial loss between the genes in the copy number profile.