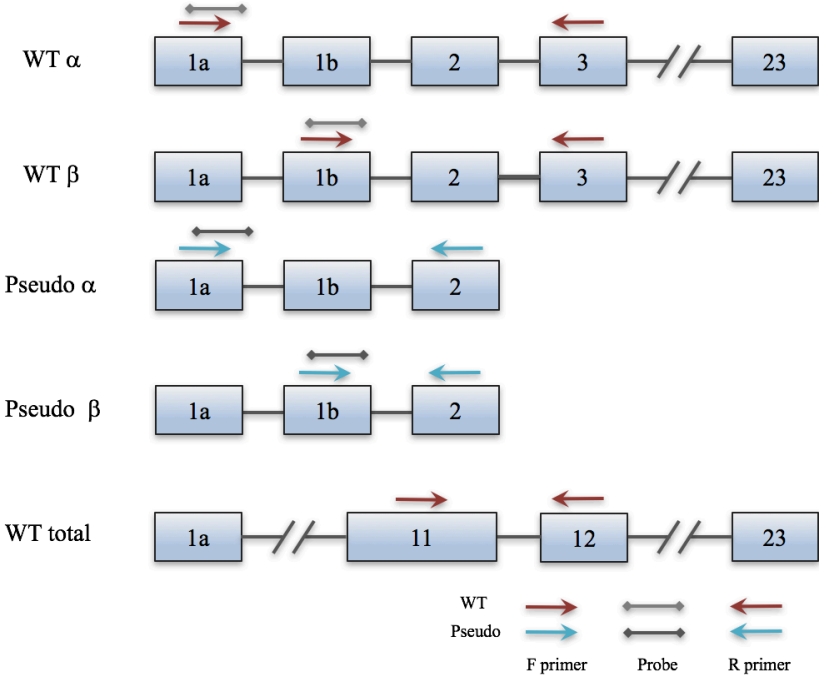


Appendix 1

A



B

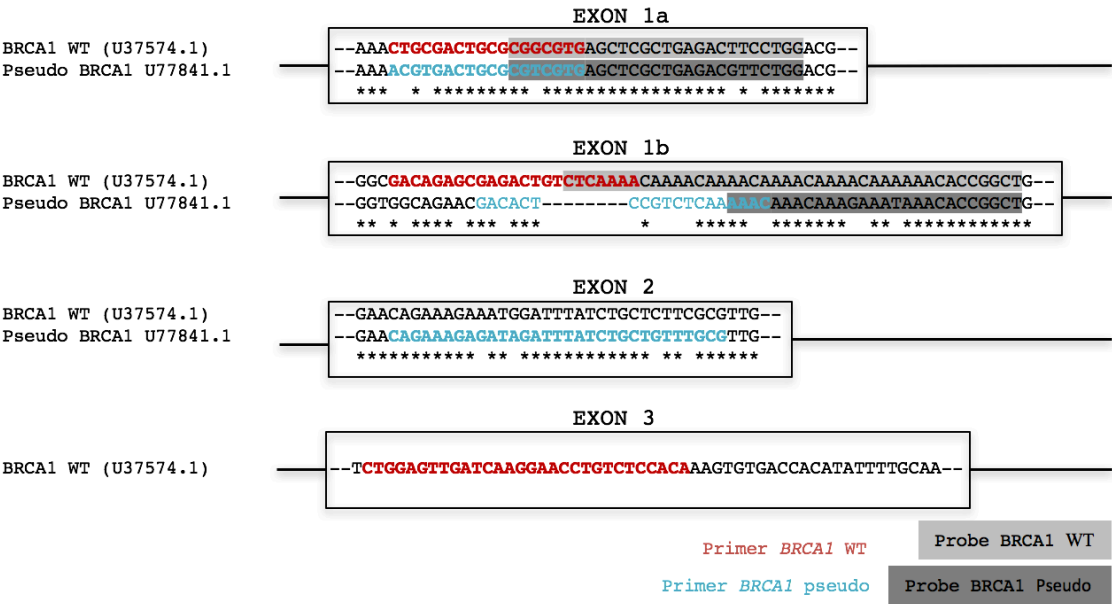


Figure A.1: Position of primers and probes for the *BRCA1* WT α , WT β , Pseudo α , Pseudo β and WT total qPCR assays. When measuring the expression *BRCA1* WT and potentially the *BRCA1* pseudo transcripts by qPCR, the primers and probes were located at positions with as high sequence dissimilarity between the WT and pseudo sequence in order to ensure assay specificity. **(A)** Overview the position of primers and probes in the qPCR assay for measuring of *BRCA1* WT α , WT β , Pseudo α , Pseudo β and WT total. **(B)** Detailed information about the nucleotide positioning of the primes and probes used in the various assays, illustrating the difference in the reference sequence between *BRCA1* WT and *BRCA1* pseudo gene in the relevant positions. Positions with identical nucleotides between the WT and Pseudo sequences are marked with a star (*). All assays had adequate specificity as tested by performing cross reactions (described in results, section 5.1.2).

Sample ID	No drug	DMSO					Olaparib			Olaparib (Backup)		Doxorubicin			Doxorubicin (Backup)	
	Time point 0	Week 3	Week 6	Week 8	Week 11	Week 13	Week 3	Week 6	Week 13	Week 8	Week 13	Week 3	Week 6	Week 11	Week 8	Week 13
Primary target size	756013	756013	756013	756013	756013	756013	756013	756013	756013	756013	756013	756013	756013	756013	756013	756013
Capture target size	723492	723492	723492	723492	723492	723492	723492	723492	723492	723492	723492	723492	723492	723492	723492	723492
Total input read	10714902	10340296	4751052	5130286	5026154	4322770	4374810	4135370	4241944	4404964	4125938	7470234	4637342	4478182	5891488	4028634
Total reads after filtering	4691863	4525124	2035224	2199183	2181140	1874902	1880400	1785304	1837496	1890531	1784025	3196649	2017261	1913144	2621654	1753468
% input reads after filtering	0,8758	0,8752	0,8567	0,8573	0,8679	0,8675	0,8596	0,8634	0,8663	0,8584	0,8648	0,8558	0,87	0,8544	0,89	0,8705
PF_READS_ALIGNED	8037064	7599584	3525138	3712560	3649602	3216566	3233182	3105286	3178680	3259192	3091986	4041512	3418760	3335060	4374516	3045868
Watson-Crick duplicate percentage	4,21	6,27	2,73	5,33	5,59	3,33	4,07	2,86	3,41	2,97	2,53	26,68	4,99	2,94	7,06	3,20
Reads on-target (primary)	2265870	2496476	1091103	1601764	1565269	1137500	1359199	1261605	1364029	1120920	1154251	488663	1487410	1224776	2160545	1284715
Reads on-target (capture)	2279466	2511854	1097884	1611480	1574811	1144561	1367341	1269199	1372374	1127712	1161241	491290	1496646	1232303	2173787	1292566
MEAN_INSERT_SIZE	177,18	169,06	169,94	163,45	159,54	163,10	167,99	175,29	170,43	163,67	172,44	163,37	169,41	176,08	171,20	175,03
mean primary_target_coverage	248,75	265,53	116,56	166,51	160,07	118,07	144,34	138,07	146,62	116,76	124,6	50,54	159,19	134,3	233	140,32
% bases >= 10x (primary target)	97,2	96,9	95,2	95,7	95,6	95,1	95,5	95,9	95,5	94,9	95,6	93,1	95,8	95,7	96,6	95,7
% bases >= 50x (primary target)	93	93	82,5	88,4	88,2	82,9	86,1	85,9	86,7	82,3	84,4	43,8	87,9	85	92	85,1
% bases >= 100x (primary target)	85,9	86,8	53,7	72,7	71,8	55,4	65,4	63,7	67,2	54,7	58,7	6	71	61,6	83,5	62,6
mean capture_target_coverage	261,43	279,35	122,69	175,32	168,59	124,34	151,9	145,21	154,33	122,94	131,09	53,04	167,57	141,24	245,15	147,57
% bases >= 10x (primary target)	99,6	99,5	98,9	99,2	99,3	99	99	99,2	99,1	98,9	99,1	97,2	99,2	99,1	99,5	99
% bases >= 50x (primary target)	97,7	97,9	87,5	93,7	93,6	88,1	91,2	91	91,9	87,3	89,5	46,2	93,2	90	97,1	90,1
% bases >= 100x (primary target)	91	92	56,6	77	76	58,4	69,1	67,3	71	57,6	62	6,3	75,2	65,1	88,6	66,2
Lambda conversion efficiency	0,995161	0,99411	0,994831	0,994243	0,994438	0,9943	0,995199	0,995733	0,994548	0,993754	0,993607	0,994649	0,994854	0,991725	0,994615	0,995563

Table A.3: Output data for methylation specific Next Generation Sequencing. A total of 16 samples treated with DMSO (control), olaparib or doxorubicin, as well no drug were analyzed by Roche NimbleGen Sec Cap Epi Enrichment Systems protocol for assessment of the methylation pattern within promoter region of target genes. Output data were used for quality assessment.