

1 **Supplementary Table S1.**

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Patients	Site of metastasis	Diagnosis	Characterization				Subtype	Treatment at relapse
			ER	PgR	HER2	Ki67		
MBC2	lung	2013	0%	0%	-	50%	TN	ViFuP
MBC3	lung	2013	>95%	0%	-	32%	LB	FULVESTRANT
MBC7	liver	2012	1%	<1%	-	83%	TN	BEXE
MBC10	lung	2014	90%	0%	-	40%	LB	LETROZOLE
MBC18	liver	2012	95%	0%	-	80%	LB	LETROZOLE
MBC22	liver	2012	95%	95%	-	25%	LB	CAPECITABINE
MBC26	liver	2012	75%	1%	-	59%	LB	TAXOL

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18 **Supplementary Table S2.**

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		ER	PgR	HER2	Ki67	SUBTYPE
MBC2	PT	0%	0%	0%	50%	TN
	PDX4	0%	0%	0%	85%	TN
MBC3	PT	>95%	0%	1 (50%)	32%	LB
	PDX3	>95%	5%	2 (40%)	45%	LB
MBC7	PT	1%	<1%	0%	83%	TN
	PDX4	1%	1%	0%	75%	TN
MBC10	PT	90%	0%	1(20%)	40%	LB
	PDX2	>95%	0%	1(10%)	65%	LB
MBC18	PT	95%	0%	1 (10%)	80%	LB
	PDX2	95%	10%	1(10%)	85%	LB
MBC22	PT	95%	95%	0%	25%	LB
	PDX3	95%	90%	0%	38%	LB
MBC26	PT	75%	1%	1 (40%)	59%	LB
	PDX3	>95%	0%	2(50%)	70%	LB

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27 **Supplementary Table S3. (See Excel file Table S3)**

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29 **Supplementary Table S4.**

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ECE1	
FORWARD	CTCACCCAAGGCCTTAAACT
REVERSE	GTTCCCGTCCTTGTCACTC
HSPA1B	
FORWARD	CTACCATTGAGGAGGTGGATTAG
REVERSE	CAAAGAAGTGAAGCAGCAAAGA
PNP	
FORWARD	GCAATAATCTGTGGTTCTGGATTAG
REVERSE	CATGACCTGGCACTGTACTT
CEMIP	
FORWARD	TCCTGCACCTTGGATTTAGAC
REVERSE	GAGCCTCGATGTCCATGATATT
AIF1L	
FORWARD	AAGGCGAGATTGACCTGATG
REVERSE	TCCTGTACCTCTGAGATCAT
GBP1	
FORWARD	GGCTATGGACCAACTGTAATATG
REVERSE	AGCTGAATCCTCAACCTCATTC
HMOX1	
FORWARD	TGCTCAACATCCAGCTCTTT
REVERSE	TGCCACATTAGGGTGTCTTC
IL32	

FORWARD	GTCTCTCTCGGCTGAGTATTTG
REVERSE	CTCTTTGAAGTCGTCCTCCAG
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TMEM184B	
FORWARD	CCCATTGAGTCCAGCTGTATG
REVERSE	GCTGACGGAGATGTTGTAGATG
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TNFAIP3	
FORWARD	TCATCCACAAAGCCCTCATC
REVERSE	CATCATTCCAGTTCCGAGTATCA
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CALB2	
FORWARD	CGCAGACGGAAATGGGTATATT
REVERSE	ACATCATGCCAGAGCCTTTC
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GCNT2	
FORWARD	ACTCAATAGGATTCCAGGTGTTC
REVERSE	GTCTTCCATGTCACTCCACTTTA
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GMPR	
FORWARD	TGTCACAGCACTCCATGTTTA
REVERSE	TGAACTCACGGCTACATTCTG
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DKC1	
FORWARD	AACCACAAGGATGAGAGTTACC
REVERSE	GGCATTACTGCACTGTCTTTC
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WDR5	
FORWARD	CACAAGCTGGGAATATCCGATG
REVERSE	GGGGATTGAAGTTGCAGCAAAA
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VIM	
FORWARD	AAAGTGTGGCTGCCAAGAAC

REVERSE	AGCCTCAGAGAGGTCAGCAA
CDH2	
FORWARD	GGGATCAAAGCCTGGAACATA
REVERSE	GACACGATTCTGTACCTCAACA
SNAI2	
FORWARD	CTTCCTGGTCAAGAAGCATTTTC
REVERSE	GGGAAATAATCACTGTATGTGTGT
SNAI1	
FORWARD	ACTATGCCGCGCTCTTTC
REVERSE	GCTGGAAGGTAAACTCTGGATTA
TWIST1	
FORWARD	ACTGGACACACATACAGTGATTAT
REVERSE	GAATGGAGCAGCGGTAGTC
TGFβ1	
FORWARD	CGTGGAGCTGTACCAGAAATAC
REVERSE	CACAACTCCGGTGACATCAA