

Supplementary Table 1. The relationship between the AQP family and the clinicopathological parameters of breast cancer. (bc-GenExMiner v4.1)

clinicopathological parameters	AQP1			AQP2			AQP3			AQP4			AQP5			AQP6			AQP7		
	No.	mRNA	P-value	No.	mRNA	P-value	No.	mRNA	P-value	No.	mRNA	P-value	No.	mRNA	P-value	No.	mRNA	P-value	No.	mRNA	P-value
Age																					
≤51	1339	-	0.5966	1358	-	0.1461	1391	ref	0.0014	1392	-	0.1975	1325	-	0.9091	1267	ref	0.0458	1523	ref	<0.0001
>51	1937	-		2086	-		2210	↑		2210	-		2091	-		1771	↑		2329	↑	
Nodal status																					
negative	2264	ref	0.0189	2420	ref	0.0076	2492	ref	0.0092	2493	-	0.2270	2235	-	0.2498	2334	-	0.9206	2492	ref	<0.0001
positive	1346	↓		1484	↓		1562	↑		1562	-		1345	-		1369	-		1813	↓	
ER (IHC)																					
negative	1425	-	0.9600	1525	-	0.5347	1558	ref	<0.0001	1446	ref	<0.0001	1425	ref	<0.0001	1408	-	0.8782	1503	ref	0.0131
positive	3514	-		3864	-		3988	↓		3766	↓		3643	↓		3591	-		3946	↑	
PR (IHC)																					
negative	917	-	0.9724	936	-	0.1201	946	ref	0.0338	804	ref	0.0186	946	ref	<0.0001	859	-	0.9016	934	-	0.3796
positive	1325	-		1390	-		1439	↓		1249	↓		1439	↓		1247	-		1355	-	
HER2(IHC)																					
negative	1409	-	0.2410	1357	-	0.4656	1409	-	0.6437	1409	ref	0.0399	1409	-	0.5824	1369	-	0.8211	1596	ref	0.0007
positive	201	-		198	-		201	-		201	↓		201	-		192	-		217	↓	
Triple-negative status																					
Not	3617	-	0.2564	4040	-	0.1062	4099	-	0.4017	3857	ref	0.0002	3754	ref	<0.0001	3751	-	0.2722	4044	ref	0.0010
TNBC	374	-		374	-		374	-		374	↑		374	↑		362	-		417	↓	

Supplementary Table 1. Continued

clinicopathological parameters	AQP8			AQP9			AQP10			AQP11			AQP12A			AQP12B		
	No.	mRNA	P-value	No.	mRNA	P-value	No.	mRNA	P-value	No.	mRNA	P-value	No.	mRNA	P-value	No.	mRNA	P-value
Age																		
≤51	1361	-	0.1773	1361	ref	0.0023	646	-	0.5638	790	ref	<0.0001	224	-	0.5717	98	-	0.0731
>51	2142	-		2142	↑		1024	-		1443	↑		451	-		259	-	
Nodal status																		
negative	2447	-	0.8487	2447	-	0.1005	580	-	0.7283	1110	-	0.0705	231	-	0.0642	116	ref	0.0029
positive	1509	-		1509	-		662	-		972	-		236	-		64	↑	
ER (IHC)																		
negative	1412	-	0.2730	1412	ref	<0.0001	725	-	0.9818	913	ref	<0.0001	227	-	0.5158	148	-	0.5895
positive	3701	-		3701	↓		1356	-		2174	↑		444	-		206	-	
PR (IHC)																		
negative	804	ref	0.0488	804	ref	<0.0001	585	-	0.9293	596	ref	<0.0001	133	-	0.0560			
positive	1249	↑		1249	↓		725	-		846	↑		152	-				
HER2(IHC)																		
negative	1409	-	0.4196	1409	-	0.0884	619	-	0.1091	619	-	0.1174	163	-	0.6090			
positive	201	-		201	-		157	-		157	-		35	-				
Triple-negative status																		
Not	3857	-	0.4170	3857	ref	<0.0001	1476	-	0.3352	2304	ref	<0.0001	470	-	0.3362	206	-	0.5007
TNBC	374	-		374	↑		197	-		197	↓		30	-		51	-	

All the data of the AQP family were based on bc-GenExMiner v4.1.

“No.” means the patients’ number from database. “ref” means take this part as reference. Some datapoints were empty due to limited samples.

ER, estrogen receptor; PR, progesterone receptor; HER2, human epidermal growth factor receptor 2; TNBC, Triple-negative breast cancer

The data with statistical significance (P<0.01) were marked in bold text.

Supplementary Table 2. The results of Dunnett-Tukey-Kramer' s test for pairwise comparison in Scarff Bloom & Richardson grade (SBR) criterion and Nottingham Prognostic Index (NPI) criterion.

Gene	Pairwise comparison of SBR	P-value	Pairwise comparison of NPI	P-value
AQP1	SBR 2 < SBR 1	<0.0001	NPI 2 < NPI 1	<0.0001
	SBR 3 < SBR 1	<0.0001	NPI 3 < NPI 1	<0.10
	SBR 3 < SBR 2	<0.0001	NPI 3 = NPI 2	>0.10
AQP5	SBR 2 = SBR 1	>0.10	NPI 2 > NPI 1	<0.001
	SBR 3 > SBR 1	<0.0001	NPI 3 > NPI 1	<0.10
	SBR 3 > SBR 2	<0.0001	NPI 3 = NPI 2	>0.10
AQP7	SBR 2 < SBR 1	<0.10	NPI 2 < NPI 1	<0.0001
	SBR 3 < SBR 1	<0.0001	NPI 3 < NPI 1	<0.001
	SBR 3 < SBR 2	<0.0001	NPI 3 = NPI 2	>0.10
AQP8	SBR 2 = SBR 1	>0.10		
	SBR 3 = SBR 1	>0.10		
	SBR 3 > SBR 2	<0.05		
AQP9	SBR 2 > SBR 1	<0.0001	NPI 2 > NPI 1	<0.0001
	SBR 3 > SBR 1	<0.0001	NPI 3 = NPI 1	>0.10
	SBR 3 > SBR 2	<0.0001	NPI 3 < NPI 2	<0.10
AQP11	SBR 2 = SBR 1	>0.10	NPI 2 < NPI 1	<0.001
	SBR 3 < SBR 1	<0.0001	NPI 3 = NPI 1	>0.10
	SBR 3 < SBR 2	<0.0001	NPI 3 = NPI 2	>0.10

Supplementary Table 3. Survival analyses of the AQP family in all breast cancer.

Gene	Affymetrix ID	Survival outcome	HR	95%CI	P-value
AQP0	220863_at	RFS	0.75	0.67-0.84	3.2e-07
		OS	1.06	0.86-1.31	0.59
		DMFS	1.01	0.84-1.23	0.89
		PPS	1.09	0.85-1.38	0.51
AQP1	207542_s_at	RFS	0.7	0.63-0.79	3.2e-10
		OS	0.75	0.61-0.93	0.0082
		DMFS	0.83	0.68-1.01	0.057
		PPS	0.88	0.69-1.12	0.29
	209047_at	RFS	0.69	0.62-0.77	5.7e-11
		OS	0.68	0.55-0.84	0.00036
		DMFS	0.81	0.67-0.99	0.035
AQP2	206672_at	PPS	0.89	0.7-1.13	0.34
		RFS	0.7	0.63-0.78	1.6e-10
		OS	0.91	0.74-1.13	0.39
		DMFS	0.99	0.82-1.2	0.92
	236630_at	PPS	0.85	0.67-1.09	0.19
RFS		0.96	0.83-1.13	0.64	
OS		1.33	0.97-1.82	0.073	
		DMFS	1.53	1.1-2.12	0.011

		PPS	1.15	0.81-1.65	0.43
	240285_at	RFS	0.79	0.68-0.93	0.0038
		OS	1.04	0.76-1.42	0.82
		DMFS	0.61	0.43-0.86	0.0044
AQP3	203747_at	PPS	1.01	0.71-1.44	0.96
		RFS	0.85	0.76-0.95	0.0037
		OS	0.99	0.8-1.23	0.93
	39248_at	DMFS	1.02	0.84-1.24	0.83
		PPS	1.02	0.8-1.3	0.85
		RFS	1.24	1.11-1.38	0.00011
AQP4	39249_at	OS	1.21	0.98-1.5	0.077
		DMFS	1.14	0.94-1.38	0.2
		PPS	1.31	1.02-1.67	0.031
	210066_s_at	RFS	1.08	0.97-1.21	0.16
		OS	1.09	0.88-1.35	0.44
		DMFS	1.05	0.87-1.28	0.6
AQP5	210067_at	PPS	1.15	0.9-1.47	0.25
		RFS	1.01	0.91-1.13	0.85
		OS	1.02	0.82-1.26	0.87
	210068_s_at	DMFS	1.11	0.92-1.35	0.27
		PPS	0.97	0.76-1.23	0.78
		RFS	0.84	0.75-0.93	0.0015
AQP6	210906_x_at	OS	0.99	0.8-1.22	0.91
		DMFS	0.92	0.76-1.12	0.41
		PPS	1.17	0.92-1.49	0.21
	226228_at	RFS	0.86	0.77-0.96	0.0054
		OS	1.01	0.81-1.24	0.96
		DMFS	1.08	0.89-1.31	0.45
AQP5	213611_at	PPS	0.88	0.69-1.13	0.32
		RFS	0.83	0.75-0.93	0.00096
		OS	1.01	0.82-1.25	0.92
	208435_s_at	DMFS	0.93	0.77-1.13	0.48
		PPS	0.91	0.72-1.16	0.46
		RFS	0.91	0.78-1.06	0.24
AQP5	213611_at	OS	1.37	1-1.88	0.049
		DMFS	0.95	0.69-1.31	0.75
		PPS	1.67	1.17-2.39	0.0047
	208435_s_at	RFS	0.91	0.82-1.02	0.092
		OS	1.12	0.9-1.38	0.31
		DMFS	0.97	0.8-1.17	0.74
AQP6	208435_s_at	PPS	1.11	0.87-1.42	0.38
		RFS	0.83	0.74-0.92	0.00064
		OS	1.15	0.93-1.42	0.2
		DMFS	1.13	0.93-1.37	0.23

		PPS	0.98	0.77-1.25	0.88
	216219_at	RFS	0.8	0.72-0.9	7.8e-05
		OS	0.96	0.78-1.19	0.72
		DMFS	1.15	0.95-1.39	0.16
		PPS	1.08	0.84-1.37	0.56
AQP7	206955_at	RFS	0.9	0.81-1	0.06
		OS	0.83	0.67-1.03	0.098
		DMFS	0.96	0.79-1.17	0.71
		PPS	1.08	0.85-1.38	0.52
AQP8	206784_at	RFS	0.75	0.67-0.83	1.8e-07
		OS	0.93	0.75-1.15	0.48
		DMFS	1.06	0.87-1.28	0.58
		PPS	0.84	0.65-1.07	0.15
AQP9	205568_at	RFS	1.61	1.45-1.8	<1E-16
		OS	1.62	1.31-2.01	9.1e-06
		DMFS	1.54	1.26-1.87	1.4e-05
		PPS	1.18	0.93-1.51	0.18
AQP10	1555338_s_at	RFS	0.78	0.66-0.91	0.0015
		OS	1.33	0.97-1.82	0.071
		DMFS	0.92	0.67-1.28	0.64
		PPS	1.46	1.02-2.08	0.037
AQP11	229526_at	RFS	0.71	0.61-0.83	1.7e-05
		OS	0.77	0.56-1.05	0.097
		DMFS	0.74	0.54-1.03	0.075
		PPS	0.75	0.53-1.07	0.11

HR, hazard ratio; CI, confidence interval; OS, overall survival; RFS, relapse free survival; DMFS, distant metastasis free survival; PPS, post progression survival.

All of the data above were obtained from the Kaplan-Meier Plotter database.

The data with statistical significance (P<0.01) were marked in bold text.

Supplementary Table 4. Survival analyses of the AQP family with different lymph node status in breast cancer.

Gene	Affymetrix ID	Survival outcome	Lymph node positive			Lymph node negative		
			HR	95%CI	P-value	HR	95%CI	P-value
AQP0	220863_at	RFS	1.06	0.87-1.29	0.57	0.97	0.82-1.15	0.71
		OS	1.26	0.86-1.86	0.24	0.81	0.56-1.17	0.27
		DMFS	1.13	0.77-1.66	0.53	0.93	0.71-1.22	0.59
		PPS	1.79	1.14-2.8	0.01	0.79	0.52-1.21	0.28
AQP1	207542_s_at	RFS	0.69	0.56-0.84	0.00018	0.8	0.67-0.95	0.0088
		OS	0.89	0.61-1.32	0.57	0.91	0.63-1.32	0.62
		DMFS	0.79	0.54-1.16	0.23	0.89	0.68-1.16	0.38
		PPS	1.19	0.76-1.86	0.45	1.01	0.66-1.56	0.95
	209047_at	RFS	0.8	0.66-0.98	0.027	0.76	0.64-0.9	0.0012
OS		1.13	0.77-1.67	0.53	0.82	0.57-1.19	0.3	

		DMFS	1.03	0.7-1.51	0.89	0.73	0.55-0.96	0.023
		PPS	1.59	1.01-2.49	0.043	0.92	0.6-1.41	0.7
AQP2	206672_at	RFS	1.06	0.87-1.29	0.55	1.02	0.86-1.2	0.86
		OS	1.27	0.86-1.88	0.22	0.62	0.42-0.92	0.016
		DMFS	1.09	0.74-1.6	0.67	1.08	0.82-1.42	0.58
		PPS	1.89	1.2-2.97	0.005	0.48	0.31-0.74	0.00075
	236630_at	RFS	0.95	0.74-1.22	0.67	1.17	0.79-1.71	0.43
		OS	1.46	0.86-2.49	0.16	0.52	0.2-1.31	0.16
		DMFS	1.25	0.67-2.32	0.48	0.89	0.38-2.09	0.78
		PPS	1.31	0.71-2.43	0.38	1.07	0.36-3.23	0.9
	240285_at	RFS	0.89	0.69-1.15	0.37	0.73	0.5-1.08	0.12
		OS	2.21	1.29-3.76	0.0029	0.54	0.22-1.35	0.18
		DMFS	0.79	0.42-1.47	0.45	0.53	0.21-1.31	0.16
		PPS	2.17	1.16-4.05	0.013	0.38	0.11-1.31	0.11
AQP3	203747_at	RFS	0.97	0.8-1.18	0.74	0.94	0.79-1.11	0.45
		OS	1.38	0.93-2.03	0.11	0.91	0.63-1.33	0.64
		DMFS	1.18	0.8-1.74	0.39	0.82	0.62-1.08	0.15
		PPS	1.83	1.16-2.88	0.0078	0.84	0.55-1.29	0.43
	39248_at	RFS	1.17	0.96-1.42	0.12	1.08	0.91-1.28	0.36
		OS	1.32	0.89-1.94	0.16	1.31	0.9-1.9	0.15
		DMFS	1.16	0.78-1.7	0.46	0.96	0.73-1.26	0.78
		PPS	1.32	0.85-2.07	0.22	1.74	1.13-2.69	0.012
	39249_at	RFS	1.05	0.86-1.28	0.62	1.05	0.89-1.24	0.56
		OS	1.05	0.71-1.54	0.81	1.26	0.87-1.82	0.23
		DMFS	1.06	0.72-1.56	0.76	0.96	0.73-1.25	0.74
		PPS	1.18	0.75-1.85	0.47	1.26	0.82-1.94	0.28
AQP4	210066_s_at	RFS	1.07	0.88-1.3	0.5	1.04	0.88-1.24	0.62
		OS	0.76	0.51-1.12	0.16	1.03	0.71-1.49	0.89
		DMFS	1.29	0.88-1.9	0.19	1.04	0.79-1.37	0.77
		PPS	0.6	0.38-0.95	0.026	1.05	0.68-1.61	0.83
	210067_at	RFS	1.05	0.87-1.28	0.59	0.86	0.73-1.02	0.09
		OS	1.19	0.8-1.75	0.39	1.04	0.72-1.52	0.82
		DMFS	1.02	0.69-1.5	0.91	1.02	0.78-1.34	0.89
		PPS	1.51	0.97-2.38	0.069	1.39	0.9-2.13	0.14
	210068_s_at	RFS	1.01	0.83-1.23	0.93	1.12	0.95-1.33	0.19
		OS	1.17	0.8-1.73	0.42	1.14	0.79-1.65	0.5
		DMFS	1.15	0.78-1.7	0.47	1.28	0.97-1.68	0.075
		PPS	1.67	1.06-2.62	0.024	0.87	1.57-1.33	0.53
	210906_x_at	RFS	0.97	0.79-1.18	0.73	0.93	0.79-1.1	0.41
		OS	1.25	0.85-1.85	0.25	1.01	0.7-1.46	0.96
		DMFS	1.25	0.85-1.84	0.25	0.86	0.66-1.13	0.28
		PPS	1.69	1.07-2.64	0.022	0.8	0.52-1.22	0.3
	226228_at	RFS	0.89	0.69-1.14	0.35	0.91	0.62-1.34	0.64
		OS	1.79	1.05-3.07	0.031	4.05	1.34-12.23	0.0072

		DMFS	0.82	0.44-1.52	0.52	1	0.42-2.36	0.99
		PPS	1.61	0.86-3.01	0.13	1.78	0.57-5.53	0.32
AQP5	213611_at	RFS	0.92	0.76-1.12	0.42	0.97	0.82-1.15	0.75
		OS	0.89	0.6-1.31	0.55	1.04	0.72-1.51	0.82
		DMFS	1.06	0.72-1.56	0.76	0.85	0.65-1.11	0.24
		PPS	1.04	0.66-1.62	0.87	1.19	0.78-1.82	0.43
AQP6	208435_s_at	RFS	1.09	0.89-1.32	0.41	1.02	0.86-1.21	0.83
		OS	1.33	0.9-1.96	0.15	1.27	0.88-1.84	0.2
		DMFS	1.13	0.77-1.66	0.54	1.27	0.97-1.67	0.079
		PPS	1.88	1.2-2.94	0.0053	1.21	0.79-1.86	0.38
	216219_at	RFS	1.19	0.98-1.45	0.083	1.14	0.96-1.35	0.13
		OS	1.3	0.88-1.92	0.18	0.86	0.59-1.25	0.42
		DMFS	1.42	0.96-2.11	0.074	1.3	0.99-1.7	0.06
		PPS	1.68	1.07-2.64	0.022	0.89	0.58-1.36	0.59
AQP7	206955_at	RFS	0.85	0.7-1.03	0.097	0.96	0.81-1.13	0.61
		OS	0.87	0.59-1.28	0.47	0.81	0.56-1.18	0.28
		DMFS	1.07	0.73-1.57	0.75	1	0.76-1.31	1
		PPS	1.15	0.74-1.8	0.54	1.05	0.68-1.61	0.83
AQP8	206784_at	RFS	1.07	0.88-1.31	0.48	1.01	0.86-1.2	0.87
		OS	1.24	0.84-1.83	0.28	0.73	0.5-1.06	0.1
		DMFS	1.42	0.96-2.1	0.078	1.04	0.79-1.36	0.77
		PPS	2.07	1.32-3.26	0.0013	0.64	0.41-0.98	0.038
AQP9	205568_at	RFS	1.51	1.24-1.84	3.6e-05	1.48	1.25-1.75	4.9e-06
		OS	1.24	0.84-1.83	0.27	1.93	1.32-2.81	0.00053
		DMFS	1.35	0.92-2	0.12	1.57	1.19-2.06	0.0011
		PPS	1.2	0.76-1.87	0.43	1.21	0.79-1.85	0.39
AQP10	1555338_s_at	RFS	0.93	0.72-1.19	0.55	0.9	0.61-1.33	0.59
		OS	1.85	1.07-3.18	0.024	1.02	0.41-2.52	0.96
		DMFS	0.87	0.47-1.61	0.65	0.81	0.33-1.96	0.64
		PPS	2.98	1.56-5.67	0.00054	1.28	0.41-4	0.67
AQP11	229526_at	RFS	0.71	0.55-0.91	0.0072	0.99	0.67-1.45	0.94
		OS	0.81	0.48-1.37	0.42	0.59	0.24-1.48	0.26
		DMFS	0.68	0.37-1.27	0.22	0.93	0.39-2.18	0.86
		PPS	1.13	0.61-2.11	0.7	1.57	0.52-4.74	0.42

HR, hazard ratio; CI, confidence interval; OS, overall survival; RFS, relapse free survival; DMFS, distant metastasis free survival; PPS, post progression survival.

All of the data above were obtained from the Kaplan-Meier Plotter database.

The data with statistical significance ($P < 0.01$) were marked in bold text.

Supplementary Table 5. Survival analyses of the AQP family with different histological grades in breast cancer.

Gene	Affymetrix ID	Survival outcome	Grade I		Grade II		Grade III	
			HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
AQP0	220863_at	RFS	1.15 (0.68-1.94)	0.6	0.85 (0.67-1.09)	0.2	0.88 (0.71-1.09)	0.24

		OS	0.75 (0.31-1.86)	0.54	1.05 (0.68-1.61)	0.82	0.95 (0.68-1.31)	0.75
		DMFS	1.66 (0.71-3.89)	0.24	0.87 (0.62-1.22)	0.42	0.95 (0.67-1.34)	0.75
		PPS	1.09 (0.4-2.94)	0.87	1.28 (0.79-2.08)	0.32	1.14 (0.77-1.67)	0.52
AQP1	207542_s_at	RFS	0.76 (0.45-1.28)	0.31	0.76 (0.59-0.96)	0.022	0.94 (0.76-1.17)	0.58
		OS	0.97 (0.4-2.34)	0.95	0.7 (0.45-1.07)	0.098	1.07 (0.77-1.49)	0.68
		DMFS	0.67 (0.29-1.55)	0.35	0.8 (0.57-1.13)	0.21	1.07 (0.76-1.51)	0.71
		PPS	1.09 (0.41-2.94)	0.86	0.81 (0.5-1.31)	0.38	1.16 (0.79-1.7)	0.44
	209047_at	RFS	0.47 (0.27-0.81)	0.0054	0.88 (0.69-1.11)	0.28	0.97 (0.78-1.2)	0.78
		OS	0.48 (0.19-1.21)	0.11	0.82 (0.53-1.25)	0.36	1.07 (0.77-1.49)	0.68
		DMFS	0.56 (0.24-1.29)	0.17	1.1 (0.78-1.54)	0.6	1.02 (0.72-1.44)	0.9
		PPS	0.56 (0.2-1.57)	0.27	0.98 (0.6-1.59)	0.94	1.1 (0.75-1.62)	0.62
AQP2	206672_at	RFS	1.1 (0.65-1.85)	0.72	0.88 (0.69-1.12)	0.29	0.9 (0.72-1.11)	0.33
		OS	1.14 (0.44-2.96)	0.78	0.83 (0.54-1.29)	0.42	0.89 (0.64-1.23)	0.47
		DMFS	1.95 (0.81-4.65)	0.13	1.06 (0.75-1.5)	0.73	0.82 (0.58-1.15)	0.25
		PPS	1.18 (0.43-3.22)	0.75	1.63 (1-2.66)	0.048	0.95 (0.64-1.39)	0.77
	236630_at	RFS	0.77 (0.27-2.21)	0.62	0.97 (0.59-1.61)	0.91	1.22 (0.89-1.66)	0.22
		OS	1.58 (0.14-18.29)	0.71	0.98 (0.31-3.06)	0.97	1.18 (0.71-1.96)	0.53
		DMFS			0.99 (0.36-2.72)	0.98	1.36 (0.76-2.43)	0.29
		PPS					1 (0.56-1.8)	1
	240285_at	RFS	0.6 (0.2-1.8)	0.36	0.73 (0.44-1.21)	0.22	0.86 (0.63-1.17)	0.34
		OS	0.45 (0.04-5.62)	0.53	1.22 (0.39-3.85)	0.74	1.55 (0.93-2.59)	0.09
		DMFS			0.86 (0.31-2.37)	0.77	0.53 (0.29-0.98)	0.039
		PPS					1.57 (0.86-2.84)	0.14
AQP3	203747_at	RFS	1.12 (0.66-1.88)	0.68	0.95 (0.75-1.21)	0.69	0.89 (0.72-1.11)	0.31
		OS	1.88 (0.7-5.1)	0.20	1.25 (0.81-1.91)	0.31	0.94 (0.68-1.3)	0.71
		DMFS	0.99 (0.42-2.33)	0.98	1.07 (0.76-1.52)	0.69	1.16 (0.82-1.64)	0.4
		PPS	1.35 (0.5-3.66)	0.55	1.39 (0.86-2.26)	0.18	1.03 (0.7-1.5)	0.9
	39248_at	RFS	1.38 (0.82-2.34)	0.23	1.02 (0.8-1.29)	0.88	1.31 (1.06-1.63)	0.014
		OS	1.75 (0.67-4.52)	0.25	1.4 (0.91-2.15)	0.12	1.25 (0.9-1.74)	0.18
		DMFS	0.66 (0.28-1.59)	0.35	1.24 (0.88-1.75)	0.23	1.45 (1.02-2.06)	0.035
		PPS	0.8 (0.3-2.14)	0.65	1.4 (0.86-2.29)	0.17	1.34 (0.91-1.96)	0.13
	39249_at	RFS	0.92 (0.54-1.54)	0.74	0.93 (0.73-1.18)	0.54	1.07 (0.86-1.33)	0.55
		OS	2.13 (0.79-5.7)	0.12	1.14 (0.75-1.75)	0.53	1.17 (0.85-1.63)	0.34
		DMFS	0.77 (0.33-1.8)	0.54	1.12 (0.8-1.59)	0.51	1.32 (0.93-1.86)	0.12
		PPS	1.99 (0.72-5.51)	0.18	1.14 (0.7-1.86)	0.59	1.09 (0.74-1.59)	0.66
AQP4	210066_s_at	RFS	1.45 (0.86-2.46)	0.16	1.01 (0.8-1.29)	0.9	1.06 (0.85-1.32)	0.61
		OS	0.4 (0.14-1.13)	0.073	1.4 (0.91-2.15)	0.12	0.9 (0.65-1.25)	0.54
		DMFS	1.5 (0.64-3.52)	0.35	1.08 (0.76-1.52)	0.68	1.03 (0.73-1.46)	0.85
		PPS	0.48 (0.17-1.33)	0.15	1.42 (0.87-2.31)	0.16	0.97 (0.66-1.43)	0.86
	210067_at	RFS	1.13 (0.68-1.9)	0.64	1.1 (0.87-1.4)	0.43	0.86 (0.69-1.08)	0.2
		OS	0.67 (0.24-1.84)	0.43	1.26 (0.83-1.94)	0.28	0.97 (0.7-1.34)	0.84
		DMFS	0.59 (0.25-1.39)	0.22	1.17 (0.83-1.65)	0.37	0.99 (0.7-1.41)	0.96
		PPS	2.03 (0.75-5.5)	0.16	1 (0.61-1.64)	0.99	1.42 (0.97-2.09)	0.87
	210068_s_at	RFS	1.04 (0.62-1.74)	0.89	1.12 (0.88-1.42)	0.35	1.1 (0.88-1.36)	0.4

		OS	0.75 (0.29-1.96)	0.56	1.34 (0.87-2.05)	0.18	1.14 (0.82-1.59)	0.43
		DMFS	1.31 (0.57-2.97)	0.52	1.21 (0.86-1.71)	0.28	1.6 (1.12-2.27)	0.0086
		PPS	0.47 (0.16-1.36)	0.16	1.41 (0.87-2.29)	0.16	1.26 (0.86-1.84)	0.23
	210906_x_at	RFS	1.44 (0.85-2.43)	0.17	0.99 (0.78-1.26)	0.97	0.96 (0.77-1.2)	0.74
		OS	0.95 (0.38-2.33)	0.9	1.27 (0.83-1.94)	0.27	1.07 (0.77-1.48)	0.7
		DMFS	1.65 (0.72-3.79)	0.24	0.81 (0.57-1.15)	0.24	1.14 (0.81-1.61)	0.45
		PPS	0.4 (0.13-1.22)	0.098	1.37 (0.84-2.22)	0.2	1.2 (0.82-1.75)	0.35
	226228_at	RFS	2.02 (0.68-6.04)	0.2	1.02 (0.62-1.7)	0.93	0.83 (0.61-1.13)	0.24
		OS	0.6 (0.05-6.69)	0.68	3.22 (0.87-11.91)	0.064	1.39 (0.84-2.32)	0.2
		DMFS			0.67 (0.24-1.9)	0.45	0.82 (0.46-1.46)	0.5
		PPS					2.07 (1.12-3.8)	0.017
AQP5	213611_at	RFS	0.96 (0.57-1.62)	0.88	0.97 (0.76-1.23)	0.8	0.89 (0.71-1.1)	0.28
		OS	1.71 (0.69-4.2)	0.24	1.22 (0.8-1.87)	0.35	0.8 (0.58-1.12)	0.19
		DMFS	0.63 (0.26-1.51)	0.3	1.08 (0.77-1.52)	0.66	1.01 (0.71-1.43)	0.95
		PPS	1.44 (0.53-3.91)	0.47	1.09 (0.67-1.77)	0.73	1.02 (0.7-1.5)	0.91
AQP6	208435_s_at	RFS	1.83 (1.07-3.13)	0.025	0.92 (0.73-1.18)	0.52	0.87 (0.7-1.08)	0.22
		OS	0.88 (0.36-2.13)	0.78	1.71 (1.11-2.64)	0.015	1.1 (0.79-1.53)	0.56
		DMFS	2.09 (0.88-4.96)	0.086	1.12 (0.79-1.57)	0.53	1.18 (0.84-1.67)	0.34
		PPS	1 (0.37-2.67)	0.99	1.82 (1.1-3.02)	0.018	1.07 (0.73-1.57)	0.73
	216219_at	RFS	1.33 (0.79-2.24)	0.29	1.05 (0.83-1.34)	0.67	1.01 (0.81-1.25)	0.96
		OS	1.42 (0.54-3.73)	0.48	1.18 (0.76-1.81)	0.46	1.01 (0.73-1.4)	0.95
		DMFS	2.02 (0.87-4.66)	0.094	1.42 (1.01-2.02)	0.045	0.95 (0.67-1.35)	0.79
		PPS	0.8 (0.3-2.15)	0.65	1.95 (1.19-3.2)	0.0074	1.04 (0.71-1.53)	0.83
AQP7	206955_at	RFS	0.62 (0.36-1.05)	0.072	1.23 (0.96-1.56)	0.096	0.87 (0.7-1.09)	0.22
		OS	0.27 (0.1-0.75)	0.0071	0.91 (0.6-1.4)	0.68	1.14 (0.82-1.57)	0.45
		DMFS	0.4 (0.16-0.97)	0.037	1.45 (1.02-2.06)	0.037	1.01 (0.71-1.42)	0.97
		PPS	0.33 (0.11-1.04)	0.047	1.05 (0.64-1.7)	0.86	1.21 (0.83-1.77)	0.32
AQP8	206784_at	RFS	0.98 (0.58-1.66)	0.95	1.09 (0.85-1.38)	0.5	0.96 (0.78-1.2)	0.75
		OS	0.82 (0.34-1.99)	0.66	0.92 (0.6-1.41)	0.69	0.98 (0.71-1.36)	0.9
		DMFS	2.32 (0.95-5.65)	0.057	1.09 (0.77-1.53)	0.64	1.11 (0.78-1.57)	0.57
		PPS	1.1 (0.41-2.97)	0.85	1.34 (0.83-2.18)	0.23	1.08 (0.74-1.57)	0.71
AQP9	205568_at	RFS	1.85 (1.09-3.13)	0.021	1.77 (1.39-2.27)	3.2e-06	1.03 (0.83-1.28)	0.8
		OS	2.15 (0.84-5.49)	0.1	1.51 (0.98-2.32)	0.058	0.98 (0.7-1.35)	0.88
		DMFS	1.93 (0.83-4.46)	0.12	1.69 (1.19-2.41)	0.0031	1.15 (0.81-1.62)	0.44
		PPS	3.17 (1.14-8.87)	0.021	1.29 (0.8-2.1)	0.29	0.92 (0.63-1.35)	0.68
AQP10	1555338_s_at	RFS	0.41 (0.13-1.3)	0.12	0.83 (0.5-1.4)	0.49	0.87 (0.64-1.19)	0.4
		OS	0.6 (0.05-6.69)	0.68	1.84 (0.56-6.13)	0.31	1.57 (0.94-2.62)	0.081
		DMFS			0.45 (0.14-1.44)	0.17	0.96 (0.54-1.7)	0.89
		PPS					2.67 (1.45-4.92)	0.0011
AQP11	229526_at	RFS	0.72 (0.25-2.08)	0.54	0.95 (0.57-1.58)	0.85	0.93 (0.68-1.27)	0.65
		OS	1.58 (0.14-18.29)	0.7	0.64 (0.2-2.03)	0.45	0.82 (0.49-1.36)	0.44
		DMFS			0.81 (0.29-2.25)	0.69	0.92 (0.52-1.63)	0.77
		PPS					1.41 (0.77-2.57)	0.26

HR, hazard ratio; CI, confidence interval; OS, overall survival; RFS, relapse free survival; DMFS, distant metastasis free survival; PPS, post progression survival.

The histological grades are based on the classical Nottingham Classification System.

All of the data above were obtained from the Kaplan-Meier Plotter database. Some data were empty because sample numbers were too low for meaningful analysis.

The data with statistical significance (P<0.01) were marked in bold text.

Supplementary Table 6. Survival analyses of the AQP family with different molecular subtypes based on the 2013 St Gallen criteria in breast cancer.

Gene	Affymetrix ID	Survival outcome	Basal-like		Lumina A		Lumina B		HER2+	
			HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value
AQP0	220863_at	RFS	0.78 (0.61-1.01)	0.057	0.81 (0.68-0.96)	0.013	0.78 (0.65-0.95)	0.013	0.66 (0.45-0.97)	0.034
		OS	1.01 (0.61-1.65)	0.98	0.97 (0.68-1.38)	0.87	1.17 (0.81-1.69)	0.41	1.32 (0.69-2.53)	0.4
		DMFS	1.34 (0.8-2.24)	0.26	1 (0.75-1.33)	0.99	1.17 (0.82-1.66)	0.38	0.75 (0.4-1.4)	0.36
		PPS	1.32 (0.74-2.36)	0.35	1.11 (0.76-1.64)	0.59	1.08 (0.7-1.65)	0.73	1.17 (0.56-2.46)	0.68
AQP1	207542_s_at	RFS	0.85 (0.66-1.09)	0.2	0.69 (0.58-0.82)	2.6e-05	0.8 (0.66-0.97)	0.025	0.69 (0.47-1.01)	0.056
		OS	0.98 (0.6-1.6)	0.92	0.61 (0.43-0.88)	0.0066	0.99 (0.68-1.43)	0.95	0.56 (0.29-1.08)	0.078
		DMFS	1.23 (0.74-2.04)	0.43	0.82 (0.61-1.09)	0.16	0.98 (0.69-1.39)	0.9	0.8 (0.43-1.49)	0.48
		PPS	1.19 (0.66-2.14)	0.56	0.79 (0.54-1.17)	0.24	1.17 (0.76-1.79)	0.48	1.17 (0.55-2.48)	0.68
	209047_at	RFS	0.94 (0.73-1.21)	0.65	0.66 (0.55-0.78)	1.5e-06	0.78 (0.64-0.94)	0.01	1.02 (0.7-1.5)	0.91
		OS	0.89 (0.54-1.45)	0.63	0.63 (0.44-0.9)	0.01	0.72 (0.5-1.05)	0.083	0.77 (0.4-1.47)	0.43
		DMFS	0.91 (0.55-1.51)	0.71	0.77 (0.58-1.03)	0.081	0.98 (0.69-1.39)	0.89	1.37 (0.73-2.57)	0.32
		PPS	1.17 (0.65-2.1)	0.59	0.9 (0.61-1.33)	0.61	1 (0.65-1.53)	0.99	1.03 (0.49-2.19)	0.93
AQP2	206672_at	RFS	0.68 (0.52-0.87)	0.0024	0.66 (0.56-0.78)	1.9e-06	0.78 (0.65-0.95)	0.012	0.55 (0.37-0.81)	0.0024
		OS	1.25 (0.75-2.06)	0.39	0.76 (0.54-1.09)	0.13	1.17 (0.8-1.71)	0.042	1.12 (0.59-2.14)	0.73
		DMFS	1.06 (0.63-1.76)	0.84	0.96 (0.72-1.28)	0.77	1.31 (0.92-1.86)	0.13	0.89 (0.48-1.66)	0.72
		PPS	1.36 (0.75-2.43)	0.31	0.81 (0.55-1.19)	0.29	1.14 (0.74-1.76)	0.55	1.67 (0.78-3.54)	0.18
	236630_at	RFS	0.75 (0.54-1.04)	0.08	0.92 (0.72-1.18)	0.53	1.13 (0.83-1.54)	0.43	1.19 (0.75-1.87)	0.46
		OS	1.13 (0.6-2.13)	0.71	1.28 (0.77-2.12)	0.33	1.64 (0.83-3.26)	0.15	1.09 (0.5-2.38)	0.84
		DMFS	0.96 (0.48-1.95)	0.92	1.81 (1.03-3.16)	0.035	1.86 (0.95-3.64)	0.066	1.67 (0.79-3.54)	0.17
		PPS	1.22 (0.52-2.85)	0.65	0.96 (0.54-1.7)	0.89	0.9 (0.43-1.88)	0.78	1.65 (0.71-3.87)	0.24
	240285_at	RFS	0.71 (0.51-0.99)	0.04	0.85 (0.67-1.1)	0.21	0.83 (0.61-1.14)	0.25	0.68 (0.42-1.09)	0.11
		OS	1.02 (0.54-1.94)	0.94	0.91 (0.55-1.52)	0.72	1.09 (0.55-2.14)	0.8	1.93 (0.88-4.26)	0.096
		DMFS	0.5 (0.24-1.05)	0.061	0.63 (0.36-1.1)	0.1	0.62 (0.32-1.23)	0.17	0.61 (0.28-1.32)	0.2
		PPS	0.93 (0.4-2.19)	0.88	0.64 (0.36-1.15)	0.13	1.08 (0.52-2.26)	0.84	3.25 (1.35-7.81)	0.0057
AQP3	203747_at	RFS	0.94 (0.73-1.21)	0.65	0.78 (0.66-0.93)	0.0047	0.84 (0.69-1.02)	0.077	1.28 (0.87-1.88)	0.21
		OS	0.9 (0.55-1.47)	0.67	1.03 (0.73-1.47)	0.86	1.46 (1-2.12)	0.048	1.54 (0.8-2.96)	0.2
		DMFS	1 (0.6-1.65)	0.99	0.97 (0.72-1.29)	0.82	1.08 (0.76-1.54)	0.66	1.98 (1.03-3.79)	0.037
		PPS	0.63 (0.35-1.14)	0.12	1.06 (0.72-1.56)	0.78	1.1 (0.72-1.69)	0.66	1.9 (0.89-4.06)	0.091
	39248_at	RFS	1.41 (1.09-1.82)	0.0076	1.11 (0.94-1.32)	0.21	1.16 (0.96-1.41)	0.13	1.8 (1.22-2.68)	0.0029
		OS	1.27 (0.77-2.01)	0.35	1.15 (0.81-1.64)	0.43	1.11 (0.77-1.61)	0.58	1.42 (0.74-2.73)	0.28
		DMFS	1.28 (0.77-2.13)	0.34	1.08 (0.81-1.44)	0.59	1.25 (0.88-1.77)	0.22	1.65 (0.88-3.11)	0.12
		PPS	0.9 (0.5-1.62)	0.73	1.41 (0.96-2.08)	0.082	1.24 (0.81-1.9)	0.33	2.94 (1.35-6.4)	0.0048
	39249_at	RFS	1.59 (1.23-2.06)	0.00032	1.02 (0.86-1.21)	0.81	1.03 (0.85-1.24)	0.78	1.42 (0.97-2.09)	0.073

		OS	1.3 (0.79-2.13)	0.29	0.98 (0.69-1.4)	0.92	1.17 (0.81-1.7)	0.4	1.2 (0.63-2.3)	0.57
		DMFS	1.31 (0.79-2.17)	0.3	1.05 (0.79-1.4)	0.75	1.12 (0.79-1.59)	0.53	1.33 (0.71-2.5)	0.37
		PPS	0.85 (0.48-1.54)	0.6	1.15 (0.78-1.69)	0.48	1.23 (0.8-1.89)	0.34	1.76 (0.83-3.74)	0.13
AQP4	210066_s_at	RFS	1.01 (0.78-1.29)	0.97	1.1 (0.93-1.31)	0.25	0.87 (0.72-1.06)	0.17	1.09 (0.74-1.59)	0.68
		OS	1.57 (0.96-2.57)	0.073	1.09 (0.77-1.55)	0.63	0.81 (0.56-1.18)	0.28	0.71 (0.37-1.37)	0.31
		DMFS	1.16 (0.7-1.93)	0.56	1.1 (0.82-1.46)	0.53	0.84 (0.59-1.2)	0.33	1.12 (0.6-2.09)	0.72
		PPS	1.64 (0.9-2.97)	0.1	0.95 (0.64-1.4)	0.79	1.06 (0.69-1.64)	0.79	0.6 (0.28-1.28)	0.18
	210067_at	RFS	0.93 (0.72-1.2)	0.58	0.91 (0.77-1.08)	0.28	0.67 (0.55-0.81)	5e-05	0.8 (0.54-1.18)	0.25
		OS	1.14 (0.7-1.86)	0.6	1.03 (0.73-1.47)	0.85	0.95 (0.64-1.39)	0.78	0.98 (0.51-1.87)	0.94
		DMFS	0.85 (0.51-1.42)	0.54	1.11 (0.83-1.47)	0.5	0.74 (0.52-1.07)	0.1	0.66 (0.35-1.25)	0.2
		PPS	1.43 (0.8-2.56)	0.22	1.07 (0.72-1.59)	0.73	1.11 (0.72-1.72)	0.63	1.36 (0.65-2.86)	0.42
	210068_s_at	RFS	0.95 (0.73-1.22)	0.66	0.82 (0.69-0.98)	0.026	0.89 (0.74-1.08)	0.24	0.97 (0.66-1.42)	0.86
		OS	1.09 (0.66-1.78)	0.74	0.84 (0.59-1.2)	0.33	1.28 (0.88-1.85)	0.2	1.4 (0.73-2.69)	0.31
		DMFS	0.93 (0.56-1.54)	0.77	1 (0.75-1.34)	0.99	1.57 (1.1-2.24)	0.011	1.14 (0.61-2.13)	0.67
		PPS	0.96 (0.53-1.73)	0.89	0.78 (0.53-1.15)	0.21	1.32 (0.86-2.03)	0.2	2.09 (0.97-4.51)	0.055
	210906_x_at	RFS	0.92 (0.71-1.18)	0.51	0.84 (0.71-1)	0.052	0.8 (0.66-0.98)	0.027	0.67 (0.46-1)	0.047
		OS	1.51 (0.92-2.5)	0.1	0.79 (0.55-1.12)	0.19	1.26 (0.87-1.83)	0.22	0.94 (0.49-1.81)	0.86
		DMFS	1.27 (0.77-2.12)	0.35	0.76 (0.57-1.01)	0.06	1.24 (0.88-1.77)	0.22	0.78 (0.42-1.47)	0.45
		PPS	1.22 (0.68-2.18)	0.5	0.8 (0.54-1.18)	0.27	1 (0.65-1.53)	1	1.54 (0.72-3.27)	0.26
	226228_at	RFS	0.84 (0.61-1.17)	0.3	1.13 (0.89-1.45)	0.31	0.63 (0.46-0.86)	0.0036	0.78 (0.49-1.23)	0.28
		OS	1.2 (0.63-2.27)	0.58	1.58 (0.95-2.63)	0.078	0.88 (0.45-1.73)	0.71	1.94 (0.86-4.39)	0.11
		DMFS	0.78 (0.38-1.59)	0.49	1.28 (0.74-2.22)	0.37	0.61 (0.31-1.2)	0.15	0.87 (0.41-1.84)	0.72
		PPS	1.14 (0.48-2.69)	0.76	1.74 (0.98-3.1)	0.056	1.26 (0.6-2.63)	0.54	2.93 (1.16-7.4)	0.018
AQP5	213611_at	RFS	1.02 (0.8-1.32)	0.86	0.8 (0.68-0.95)	0.013	0.87 (0.72-1.06)	0.16	0.81 (0.55-1.19)	0.29
		OS	1.37 (0.83-2.25)	0.21	0.92 (0.64-1.31)	0.63	0.93 (0.64-1.36)	0.72	0.97 (0.51-1.84)	0.92
		DMFS	0.99 (0.59-1.64)	0.96	0.85 (0.64-1.14)	0.28	1.15 (0.81-1.64)	0.43	0.81 (0.43-1.52)	0.52
		PPS	1.57 (0.87-2.81)	0.13	0.83 (0.56-1.22)	0.35	0.98 (0.64-1.51)	0.93	1.41 (0.66-3.01)	0.37
AQP6	208435_s_at	RFS	0.8 (0.62-1.03)	0.088	0.84 (0.71-1)	0.05	0.83 (0.68-1)	0.051	0.79 (0.54-1.17)	0.24
		OS	1.26 (0.77-2.06)	0.36	1.51 (0.81-1.63)	0.45	1.26 (0.87-1.83)	0.22	0.88 (0.46-1.68)	0.7
		DMFS	1.55 (0.93-2.6)	0.092	1.07 (0.81-1.43)	0.63	1.29 (0.91-1.84)	0.15	0.9 (0.48-1.68)	0.74
		PPS	1.28 (0.71-2.29)	0.41	1.06 (0.72-1.56)	0.78	0.93 (0.6-1.42)	0.72	0.76 (0.36-1.61)	0.47
	216219_at	RFS	0.67 (0.52-0.87)	0.0023	0.77 (0.65-0.91)	0.0023	0.87 (0.72-1.06)	0.17	0.65 (0.44-0.95)	0.026
		OS	0.81 (0.5-1.34)	0.42	0.92 (0.65-1.31)	0.65	0.9 (0.62-1.3)	0.56	0.92 (0.48-1.75)	0.8
		DMFS	0.58 (0.35-0.98)	0.04	1.09 (0.82-1.45)	0.56	1.91 (1.33-2.74)	0.00035	0.87 (0.47-1.63)	0.67
		PPS	1.17 (0.65-2.11)	0.61	1 (0.67-1.48)	1	0.94 (0.61-1.44)	0.77	1.04 (0.49-2.18)	0.92
AQP7	206955_at	RFS	1.05 (0.82-1.35)	0.69	0.81 (0.68-0.96)	0.016	1.05 (0.86-1.27)	0.65	0.98 (0.67-1.44)	0.94
		OS	1.64 (1-2.71)	0.049	0.67 (0.47-0.96)	0.028	0.78 (0.54-1.13)	0.19	1.57 (0.81-3.02)	0.18
		DMFS	1.5 (0.89-2.5)	0.12	0.96 (0.72-1.28)	0.77	0.81 (0.57-1.15)	0.24	1.66 (0.88-3.13)	0.11
		PPS	1.03 (0.57-1.84)	0.93	0.93 (0.63-1.37)	0.71	1.03 (0.67-1.58)	0.89	2.39 (1.09-5.23)	0.026
AQP8	206784_at	RFS	0.63 (0.49-0.82)	0.00038	0.83 (0.7-0.98)	0.027	0.77 (0.63-0.93)	0.0064	0.65 (0.44-0.95)	0.027
		OS	0.82 (0.5-1.34)	0.43	0.8 (0.56-1.14)	0.22	1.04 (0.72-1.51)	0.84	0.91 (0.48-1.74)	0.78
		DMFS	0.75 (0.45-1.26)	0.28	1.1 (0.83-1.47)	0.5	1.27 (0.89-1.81)	0.18	0.81 (0.44-1.52)	0.52
		PPS	1.08 (0.6-1.93)	0.8	0.64 (0.43-0.95)	0.027	0.81 (0.53-1.25)	0.34	0.87 (0.41-1.83)	0.71
AQP9	205568_at	RFS	0.93 (0.72-1.19)	0.56	1.77 (1.49-2.11)	5.7e-11	1.37 (1.13-1.66)	0.0013	0.69 (0.47-1.01)	0.057

		OS	0.79 (0.48-1.3)	0.35	1.48 (1.04-2.11)	0.029	1.4 (0.96-2.04)	0.079	0.97 (0.51-1.86)	0.93
		DMFS	0.95 (0.57-1.57)	0.83	1.51 (1.13-2.02)	0.005	1.16 (0.81-1.64)	0.42	0.69 (0.37-1.3)	0.25
		PPS	0.77 (0.42-1.39)	0.38	1.49 (1.01-2.2)	0.045	0.86 (0.56-1.33)	0.5	0.95 (0.45-1.99)	0.88
AQP10	1555338_s_at	RFS	0.61 (0.44-0.85)	0.0035	0.86 (0.67-1.1)	0.23	0.88 (0.64-1.2)	0.41	1.34 (0.85-2.12)	0.2
		OS	1.25 (0.66-2.37)	0.49	1.25 (0.75-2.07)	0.39	1.28 (0.65-2.51)	0.47	3.38 (1.35-8.47)	0.0058
		DMFS	0.89 (0.44-1.8)	0.74	0.99 (0.57-1.71)	0.97	1.08 (0.56-2.08)	0.82	1.9 (0.89-4.06)	0.093
		PPS	2.05 (0.86-4.88)	0.1	1.47 (0.83-2.59)	0.19	0.96 (0.46-2)	0.92	1.33 (0.57-3.08)	0.51
AQP11	229526_at	RFS	0.71 (0.52-0.99)	0.042	0.86 (0.68-1.1)	0.24	0.8 (0.58-1.08)	0.14	1.1 (0.7-1.74)	0.67
		OS	0.87 (0.46-1.64)	0.66	1.01 (0.61-1.66)	0.98	0.78 (0.39-1.52)	0.46	0.99 (0.45-2.17)	0.98
		DMFS	0.84 (0.41-1.71)	0.63	0.65 (0.37-1.13)	0.12	1.4 (0.72-2.73)	0.31	1.51 (0.72-3.19)	0.27
		PPS	0.9 (0.39-2.09)	0.81	1.23 (0.7-2.14)	0.47	0.57 (0.27-1.19)	0.13	0.52 (0.22-1.22)	0.13

HR, hazard ratio; CI, confidence interval; OS, overall survival; RFS, relapse free survival; DMFS, distant metastasis free survival; PPS, post progression survival.

All of the data above were obtained from the Kaplan-Meier Plotter database.

The data with statistical significance (P<0.01) were marked in bold text.