

**Additional file 5: Table S5.** Table of the allelic ratios for the patients analysed for AEI at rs9659030 and rs1676486. Allelic ratios are shown  $\pm$  the standard error of the mean. P-values were calculated using a Mann Whitney U test. P-values  $< 0.05$  are highlighted in bold.

rs9659030			rs1676486		
Patient	Allelic ratio (A/G)	P value	Patient	Allelic ratio (C/T)	P value
1	1.16 $\pm$ 0.16	0.42	<b>1</b>	<b>0.36 <math>\pm</math> 0.01</b>	<b>&lt;0.01</b>
3	0.98 $\pm$ 0.2	1.00	<b>3</b>	<b>0.31 <math>\pm</math> 0.01</b>	<b>&lt;0.01</b>
4	1.08 $\pm$ 0.08	0.84	<b>6</b>	<b>0.43 <math>\pm</math> 0.08</b>	<b>&lt;0.01</b>
8	1.09 $\pm$ 0.11	0.55	<b>8</b>	<b>0.35 <math>\pm</math> 0.02</b>	<b>&lt;0.01</b>
9	0.94 $\pm$ 0.1	1.00	<b>10</b>	<b>0.24 <math>\pm</math> 0.02</b>	<b>&lt;0.01</b>
10	0.8 $\pm$ 0.06	0.1	<b>11</b>	<b>0.38 <math>\pm</math> 0.02</b>	<b>&lt;0.01</b>
<b>11</b>	<b>0.66 <math>\pm</math> 0.03</b>	<b>&lt;0.01</b>	<b>13</b>	<b>0.29 <math>\pm</math> 0.01</b>	<b>&lt;0.01</b>
13	0.81 $\pm$ 0.07	0.06	<b>21</b>	<b>0.42 <math>\pm</math> 0.01</b>	<b>&lt;0.01</b>
15	0.94 $\pm$ 0.12	0.69	<b>22</b>	<b>0.48 <math>\pm</math> 0.02</b>	<b>&lt;0.01</b>
19	1.16 $\pm$ 0.05	0.06	<b>23</b>	<b>0.64 <math>\pm</math> 0.02</b>	<b>&lt;0.01</b>
<b>20</b>	<b>0.81 <math>\pm</math> 0.02</b>	<b>&lt;0.01</b>	<b>24</b>	<b>0.33 <math>\pm</math> 0.02</b>	<b>&lt;0.01</b>
24	0.83 $\pm$ 0.08	0.22	<b>25</b>	<b>0.29 <math>\pm</math> 0.01</b>	<b>&lt;0.01</b>
28	0.92 $\pm$ 0.05	0.55	<b>31</b>	<b>0.33 <math>\pm</math> 0.01</b>	<b>&lt;0.01</b>
31	0.75 $\pm$ 0.05	0.15	<b>33</b>	<b>0.48 <math>\pm</math> 0.04</b>	<b>&lt;0.01</b>
35	1.35 $\pm$ 0.6	0.33	<b>35</b>	<b>0.24 <math>\pm</math> 0.03</b>	<b>&lt;0.01</b>
<b>37</b>	<b>0.69 <math>\pm</math> 0.03</b>	<b>&lt;0.01</b>	<b>37</b>	<b>0.29 <math>\pm</math> 0.01</b>	<b>&lt;0.01</b>
<b>39</b>	<b>0.66 <math>\pm</math> 0.04</b>	<b>&lt;0.01</b>	<b>39</b>	<b>0.22 <math>\pm</math> 0.01</b>	<b>&lt;0.01</b>
45	1.2 $\pm$ 0.16	0.69	<b>41</b>	<b>0.22 <math>\pm</math> 0.01</b>	<b>&lt;0.01</b>
46	1.06 $\pm$ 0.1	0.69	<b>42</b>	<b>0.44 <math>\pm</math> 0.03</b>	<b>&lt;0.01</b>
72	1.06 $\pm$ 0.12	0.73	<b>45</b>	<b>0.34 <math>\pm</math> 0.03</b>	<b>&lt;0.01</b>
73	0.96 $\pm$ 0.18	0.57	<b>46</b>	<b>0.35 <math>\pm</math> 0.02</b>	<b>&lt;0.01</b>
74	0.90 $\pm$ 0.04	1.00	<b>47</b>	<b>0.47 <math>\pm</math> 0.02</b>	<b>&lt;0.01</b>
75	0.98 $\pm$ 0.04	1.00			
76	0.99 $\pm$ 0.21	0.79			
77	0.93 $\pm$ 0.14	0.69			
78	0.72 $\pm$ 0.08	0.55			