

Supplementary Table 5. Reported missense mutations in D65_S228 domain of AXIN1.

Amino acid position in AXIN1	Nucleotide change	Amino acid change	COSMIC and TCGA ID number	Count	Consurf score	identical to AXIN2
69	c.206G>A	p.G69E	COSM5620341	1	9	ID
69	c.206G>T	p.G69V	COSM7663689	1	9	ID
72	c.214C>A	p.P72T	COSM4995659	1	9	ID
73	c.217G>A	p.E73K	COSM93924	1	9	ID
73	c.217G>C	p.E73Q	COSM7694173	8	9	ID
74	c.220G>A	p.G74S	COSM6965088	2	8	ID
75	c.223A>G	p.S75G	COSM143840	2	9	x
75	c.224G>A	p.S75N	COSM143871	1	9	x
76	c.226G>A	p.A76T	COSM143826	4	9	ID
76	c.227C>T	p.A76V	COSM143838	3	9	ID
77	c.230C>T	p.S77F	COSM143852	3	9	ID
78	c.232C>T	p.P78S	COSM143856	1	9	ID
79	c.236C>T	p.T79I	COSM143853	4	9	x
79	c.236_237delinsTT	p.T79I	COSM9473387	1	9	x
80	c.238C>A	p.P80T	COSM8199893	1	9	x
87	c.259G>A	p.E87K	COSM143839	1	9	x
88	c.262T>C	p.S88P	COSM5568943	1	9	ID
90	c.268C>T	p.H90Y	COSM1678728	1	9	ID
91	c.272_273delinsTT	p.S91F	COSM4565919	1	9	ID
94	c.280G>A	p.D94N	COSM9359320	1	9	x
98	c.292G>A	p.G98R	COSM3727222	1	9	ID
98	c.293G>A	p.G98E	COSM6908745	1	9	ID
100	c.299G>A	p.S100N	COSM9494433	2	4	x
101	c.302T>C	p.L101P	COSM143744	1	9	ID
103	c.308G>T	p.R103M	COSM143743	1	7	ID
104		<i>T104N</i>	TCGA-2G-AAGA-01		8	
106	c.317T>G	p.L106R	COSM142850	1	8	ID
107	c.320_321delinsTA	p.K107I	COSM290940	1	4	x
108	c.324G>T	p.Q108H	COSM143918	1	8	x
109	c.327G>T	p.E109D	COSM8794541	1	9	ID
110	c.329G>C	p.G110A	COSM7357165	1	1	x
112	c.334G>A	p.A112T	COSM8913100	1	6	x
113	c.337G>A	p.D113N	COSM3420985	1	9	ID
113	c.337G>T	p.D113Y	COSM5822630	1	9	ID
120	c.359C>A	p.A120D	COSM8393909	1	9	ID
121	c.361T>A	p.C121S	COSM6982534	1	9	ID
121	c.362G>T	p.C121F	COSM133748	2	9	ID
122	c.364A>G	p.T122A	COSM143746	1	8	x
122	c.365C>G	p.T122S	COSM9496131	1	8	x
125	c.373A>T	p.R125W	COSM1729092	1	9	ID
132	c.395C>G	p.S132W	COSM9064898	1	2	x
133	c.398A>G	p.N133S	COSM4579034	1	8	x
134	c.400G>A	p.E134K	COSM143855	1	8	x
137	c.410G>A	p.R137K	COSM143878	1	7	x

139	c.417G>T	p.K139N	COSM970617	1	8	x
141	c.421G>A	p.A141T	COSM6225693	1	9	ID
143	c.428C>A	p.A143D	COSM4607640	2	9	ID
146	c.437G>A	p.R146Q	COSM970616	7	6	x
147	c.441G>T	p.K147N	COSM5054885	1	7	x
149	c.446T>C	p.I149T	COSM435240	1	8	ID
152	c.455A>C	p.N152T	COSM6609029	1	1	ID
156	c.466G>A	p.V156M	COSM5850898	1	9	ID
158	c.472C>T	p.R158W	COSM8837387	1	8	x
161	c.482A>C	p.K161T	COSM1184278	1	9	ID
166	c.498C>A	p.S166R	COSM5005583	2	8	x
170	c.509G>A	p.G170D	COSM9837233	1	8	x
172	c.513_514inv	p.I172V	COSM9837232	1	7	ID
173	c.519G>A	p.M173I	COSM143889	1	1	x
176	c.527T>A	p.L176Q	COSM9837231	1	5	x
177	c.529A>T	p.I177F	COSM6913901	1	7	ID
181	c.543G>A	p.M181I	COSM5990560	1	8	ID
185	c.554C>A	p.A185D	COSM5811968	1	9	ID
185	c.554C>T	p.A185V	COSM9886522	1	9	ID
185		<i>p.A185T</i>	TCGA-AP-A1DK-01		9	ID
188	c.562G>A	p.E188K	COSM4060722	2	9	ID
191	c.571G>A	p.A191T	COSM5990559	1	1	x
192	c.575C>G	p.T192S	COSM7319071	1	6	x
193	c.578T>A	p.M193K	COSM4910337	1	5	ID
199	c.595C>T	p.P199S	COSM7960470	2	9	x
199	c.596C>T	p.P199L	COSM7960500	1	9	x
200	c.599C>G	p.S200C	COSM7677279	1	4	x
200	c.599C>T	p.S200F	COSM5990558	1	4	x
202	c.604C>T	p.L202F	COSM6976660	1	9	ID
202	c.605T>C	p.L202P	COSM3727796	1	9	ID
202	c.605_609delinsAAAAT	p.L202_K203delinsQN	COSM6967623	1	9	ID
205	c.613G>C	p.D205H	COSM9530177	1	8	ID
206	c.618T>G	p.I206M	COSM1377725	1	9	ID
207	c.620A>G	p.Y207C	COSM4968577	1	9	ID
209	c.625G>C	p.E209Q	COSM6955693	2	9	ID
213	c.638C>T	p.T213I	COSM143872	2	7	x
215	c.644C>T	p.S215L	COSM133743	1	4	x
218	c.652C>T	p.P218S	COSM133744	3	9	x
218	c.653_654delinsTT	p.P218L	COSM9473208	1	9	x
224	c.672G>C	p.Q224H	COSM3817967	1	7	x
226	c.677C>G	p.S226C	COSM143799	1	9	x
228	c.683C>T	p.S228L	COSM143880	1	8	x