Supplementary Table S1.

No.	Author	Year	Number of tumours with detected PTEN mutation/ number of patients examined (%)	Exon	Mutated codon	Protein change	Notes
				Pancreatic cancer			
1	Uemura *et al.* [18]	2018	1/1 (100%)	7	234	PTEN p.R234Q	Germinal mutation
2	Young *et al.* [19]	2013	3/23 (13%)	Lack of data	Lack of data	Lack of data	–
				Breast cancer			
3	Kechagioglou *et al.* [1]	2014	19/43 (44.2%)	1	13	PTEN:p.K13E	–
					18	PTEN:p.F18Ifs*28	
					20	PTEN:p.V20Sfs*4	
					20	PTEN:p.F21Sfs*3	
					21	PTEN:p.F21Y	
					21	PTEN:p.C21Afs*3	
					22	PTEN:p.D22E	
					23	PTEN:p.L23V	
					23	PTEN:p.L23Qfs*3	
				5	108	PTEN:p.S108Rfs*2	–
					111	PTEN:p.R111Lfs*9	
					112	PTEN:p.L112=	
					113	PTEN:p.S113Rfs*21	
					113	PTEN:p.E114K	
					114	PTEN:p.E114Kfs*20	
					114	PTEN:p.D115*	
					116	PTEN:p.D116T	
					120	PTEN:p.A120S	
					137	PTEN:p.R138Afs*8	
					140	PTEN:p.L140F	
					146	PTEN:p.L146*	
					147	PTEN:p.K147=	
					147	PTEN:p.K147R	
					148	PTEN:p.A148D	
					152	PTEN:p.L152V	
					152	PTEN:p.L152=	
					153	PTEN:p.D153A	
					153	PTEN:p.D153N	
					153	PTEN:p.D153E	
					154	PTEN:p.F154S	
					154	PTEN:p.F154=	
					155	PTEN:p.Y155L	
					155	PTEN:p.Y155*	
					156	PTEN:p.G156=	
					157	PTEN:p.E157K	
					157	PTEN:p.E157K	
					157	PTEN:p.E157=	
					159	PTEN:p.R159=	
					159	PTEN:p.R159K	
					159	PTEN:p.R159=	
					161	PTEN:p.R161=	
					162	PTEN:p.D162T	
					162	Lack of data	
				7	212	PTEN:p.N212R	–
					257	PTEN:p.F257S	
					258	PTEN:p.F258S	
					260	PTEN:p.K260E	
					263	PTEN:p.K263R	
					264	PTEN:p.M264I	
				9	378	PTEN:p.R378S	–
					379	PTEN:p.Y379F	
					400	PTEN:p.I400=	
					400	PTEN:p.I400=	
					401	PTEN:p.T401R	
					402	PTEN:p.K402=	

4	Feilotter *et al.* [20]	1999	0/70 (0%)	–	–	–	–
5	Liang *et al.* [21]	2018	14/89 (15.7%)	Lack of data	Lack of data	Lack of data	–
6	Li *et al.* [22]	2018	15/313 (4.8%)	1	16 17 27	PTEN:p.Y16LfsTer28 PTEN:p.Q17* PTEN:p.Y27N	–
				3	62	PTEN:p.K62*	–
				5	136	PTEN:p.C136R	–
				6	201 211	PTEN:p.E201* PTEN:p.C211*	–
				7	233	PTEN p.R233*	–
				8	298 319 335 336 340	PTEN:p.Q298* PTEN:p.T319* PTEN p.R335* PTEN p.Y336* PTEN:p.N340Ifs*4	–
				Intron 6	–	–	c.635–12_636delTTAACCATGCAGAT
7	Stemke-Hale *et al.* [23]	2008	2/88 (2.3%)	Lack of data	Lack of data	Lack of data	–
8	Mitus *et al.* [24]	2020	1/159 (0.62%)	3	57	PTEN:p.L57Ffs*6	Phyllodes tumour
9	Tang *et al.* [25]	2015	1/11 (9%)	Lack of data	Lack of data	Lack of data	
Prostate cancer							
10	Kmak *et al.* [26]	2020	1/1 (100%)	8	323	PTEN:p.L57Ffs*6	–
11	Julka *et al.* [27]	2020	1/1 (100%)	Lack of data	Lack of data	Lack of data	Loss of exons 2–9
12	Wilkinson *et al.* [28]	2020	1/1 (100%)	Lack of data	Lack of data	Lack of data	–
13	Haffner *et al.* [26]	2013	1/1 (100%)	7	Lack of data	Lack of data	4–bp frameshifting deletion
14	Hussain *et al.* [30]	2018	34/87 (39%)	Lack of data	Lack of data	Lack of data	–
Lung cancer							
15	Uruga *et al.* [31]	2020	2/2 (100%)	8	323 323	PTEN:p. N323Mfs*21 PTEN:p. N323Mfs*21	Lung adenocarcinoma Samples were subjected to genetic testing after the application of chemotherapy
16	Wang *et al.* [32]	2020	1/1 (100%)	7	237	PTEN:p.K237Cfs*17	Small cell lung cancer
17	Parikh *et al.* [33]	2018	1/1 (100%)	7	268	PTEN:p.D268fs*30	Small cell lung cancer
18	Hayashi *et al.* [34]	2018	1/1 (100%)	5	123	PTEN:p.H123D	Small cell lung cancer

19	Miyoshi *et al.* [35]	2017	3/78 (4%) – large cell neuroendocrine carcinoma 10/161 (6%) – small cell lung cancer	Lack of data	Lack of data	Lack of data	–
			Mediastinal germ cell tumour				
20	Akizuki *et al.* [36]	2020	1/1 (100%)	5	85	PTEN: p.V85Gfs*14	–
			Ovarian cancer				
21	Matsubayashi *et al.* [37]	2019	1/1 (100%)	Intron	–	–	c.1026 + 1G > T Germinal mutation Endometrial cancer of the ovary DNA of the tumour did not show mutation of the PTEN gene
22	Li *et al.* [38]	2019	3/62 (4.8%)	5	101 136	PTEN p.I101Nfs*12 PTEN p.C136Vfs*11	–
				6	206	PTEN p.F206Qfs*31	
23	Yauy *et al.* [39]	2019	1/1 (100%)	5	130	PTEN:p.R130*	Germinal mutation
24	McConechy *et al.* [40]	2013	5/30 (16.6%)	5	130 130 130 130 139	PTEN p.R130* PTEN p.R130G PTEN p.R130G PTEN p.R130G PTEN p.L139V	Endometrial cancer of the ovary
				6	173	PTEN p.R173C	
				8	299 326 335 341	PTEN p.E299* PTEN p.D326G PTEN p.R335* PTEN p.F341V	
25	Fu *et al.* [41]	2012	1/21 (4.8%)	Lack of data	Lack of data	Lack of data	–
26	Kuo *et al.* [42]	2009	5/97 (5%)	Lack of data	Lack of data	Lack of data	–
27	Elvin *et al.* [43]	2017	2/125 (1.6%)	6	171	PTEN:p.Q171*	Clear cell carcinoma of the ovary
				7	233	PTEN p.R233*	
			Cervical cancer				
28	Wang *et al.* [44]	2018	5/32 (16%)	Lack of data	Lack of data	Lack of data	–
			Cholangiocarcinoma				
29	Sui *et al.* [45]	2019	1/2 (50%)	Lack of data	Lack of data	Lack of data	–
			Hepatocellular carcinoma				
30	Villanueva *et al.* [46]	2008	1/102 (1%)	Lack of data	Lack of data	Lack of data	–

Endometrial cancer							
31	Kuno *et al.* [47]	2019	1/1 (100%)	8	308	PTEN:p.R308fs	–
32	Martignetti *et al.* [48]	2018	1/1 (100%)	5	130	PTEN:p.130G	–
				8	338	PTEN:p.338fs	
33	Matsuura *et al.* [49]	2018	10/20 (50%)	5	92	PTEN:p.D92G	–
					130	PTEN p.R130G	
					130	PTEN p.R130*	
					130	PTEN p.130P	
					157	PTEN:p.E157*	
				6	173	PTEN:p.R173C	
					173	PTEN:p.R173H	
					190	PTEN:p.P190fs*9	
				7	233	PTEN p.R233*	
					267	PTEN:p.K267Rfs*9	
				8	284	PTEN:p.E284*	
34	McConechy *et al.* [40]	2013	185/276 (67%)	1	1	PTEN p.M1I	–
				2	5	PTEN p.I5N	
				3	6	PTEN p.K6T	
				5	7	PTEN p.E7*	
				6	7	PTEN p.E7*	
				7	7	PTEN p.E7*	
				8	7	PTEN p.E7*	
				9	7	PTEN p.E7*	
					7	PTEN p.E7*	
					11	PTEN p.R11I	
					11	PTEN p.R11*	
					13	PTEN p.K13T	
					15	PTEN p.R15I	
					15	PTEN p.R15*	
					16	PTEN p.Y16*	
					16	PTEN p.Y16*	
					16	Y16fs	
					17	PTEN p.Q17*	
					18	PTEN p.E18*	
					20	PTEN p.G20E	
					20	PTEN p.G20*	
					20	PTEN p.G20*	
					20	PTEN p.G20V	
					23	L23fs	
					23	PTEN p.L23*	
					24	D24fs	
					24	PTEN p.D24V	
					24	PTEN p.D24H	

25	PTEN p.L25S
25	PTEN:p.L25Ffs*28
33	PTEN:p.I33del
36	PTEN p.G36R
37	PTEN p.F37fs
40	PTEN p.E40*
43	PTEN p.E43*
70	PTEN p.S170I
87	PTEN p.Q87*
89	PTEN p.P89fs
91	PTEN:p.E91Afs*9
92	PTEN p.D92E
92	PTEN p.D92Y
92	PTEN p.D92G
93	PTEN p.H93D
93	PTEN p.H93Q
95	PTEN p.P95L
96	PTEN p.P96S
98	PTEN p.L98R
99	PTEN p.E99*
99	PTEN p.E99*
101	PTEN p.I101S
104	PTEN p.F104V
106	Brak danych
107	PTEN p.D107Y
107	PTEN p.D107V
111	PTEN p.W111*
111	PTEN p.W111*
112	PTEN p.L112V
112	PTEN p.L112P
114	PTEN p.E114*
119	PTEN:p.A120Qfs*14
121	PTEN:p.A121Dfs*4
123	PTEN p.H123Y
124	PTEN p.C124S
126	PTEN p.A126S
127	PTEN p.G127V
127	PTEN p.G127*
127	PTEN:p.G127Dfs*5
128	PTEN p.K128Q
129	PTEN p.G129E

129	PTEN p.G129R
129	PTEN p.G129R
129	PTEN p.G129R
129	PTEN p.G129R
129	PTEN p.G129*
130	PTEN p.130P
130	PTEN p.R130G
130	PTEN p.R130G
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130	PTEN p.R130Q
130	PTEN p.R130Q
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130	PTEN p.R130L
130	PTEN p.R130L
130	PTEN p.R130L
130	PTEN p.R130L
130	PTEN p.R130L
130	PTEN:p.R130Efs*4
130	PTEN:p.R130Efs*4
130	PTEN:p.R130Efs*4
130	PTEN p.R130P
131	PTEN:p.T131Mfs*3
132	PTEN p.G132V
134	PTEN p.M134fs
135	p.C136MfsTer44
135	PTEN p.I135K
135	PTEN p.I135V
136	PTEN p.C136Y
136	PTEN p.C136Y
136	PTEN p.C136R
136	PTEN p.C136R
136	PTEN p.C136Y
142	PTEN p.R142W
142	PTEN p.R142W
142	PTEN p.R142W
142	PTEN p.R142W
143	PTEN:p.K144Qfs*36
147	PTEN p.K147*
150	PTEN p.E150*
152	PTEN p.L152R
155	PTEN:p.Y155Wfs*3
157	PTEN:p.E157Gfs*23
166	PTEN p.V166A
168	PTEN:p.I168fs
171	PTEN p.Q171*
171	PTEN p.Q171*
172	PTEN:p.R172fs
173	PTEN p.R173H

173	PTEN p.R173C
173	PTEN p.R173C
173	PTEN p.R173C
176	PTEN p.Y176*
177	PTEN p.Y177*
177	PTEN p.Y177fs
177	PTEN p.Y177H
177	PTEN p.Y177*
178	PTEN p.Y178*
178	PTEN p.Y178D
182	PTEN p.L182*
185	PTEN:p.H185fs
194	PTEN:p.L194Cfs*5
195	PTEN p.F195S
203	PTEN p.I203fs
212	PTEN p.N212fs
212	PTEN p.N212fs
214	PTEN p.214*
214	PTEN p.Q214*
217	PTEN p.V217D
218	PTEN p.C218*
218	PTEN p.C218*
233	PTEN p.R233*
233	PTEN p.R233*
233	PTEN p.R233*
233	PTEN p.R233*
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233	PTEN p.R233*
233	PTEN p.R233*
242	PTEN p.E242*
242	PTEN p.E242*
245	PTEN p.Q245*
246	PTEN p.P246L
247	PTEN p.L247S
259	PTEN p.H259P
268	PTEN:p.D268Gfs*30
268	PTEN:p.D268Gfs*30
268	PTEN:p.D268Gfs*30
269	PTEN p.K269*

277	PTEN p.T277R
278	PTEN p.F278L
285	PTEN p.E285*
288	PTEN:p.V290*
288	PTEN p.E288*
291	PTEN:p.E291Kfs*16
293	PTEN p.G293*
293	PTEN p.G293V
295	PTEN:p.L295Mfs*2
298	PTEN p.Q298*
299	PTEN p.E299*
299	PTEN p.E299*
300	PTEN:p.I300Mfs*7
301	PTEN p.D301fs
307	PTEN p.E307fs
307	PTEN p.E307fs
308	PTEN:p.R308Cfs*3
313	PTEN p.K313fs
315	PTEN p.Y315*
317	PTEN:p.V317Dfs*6
317	PTEN:p.T319*
317	PTEN:p.T319*
317	PTEN:p.T319*
317	PTEN:p.T319*
317	PTEN:p.T319*
317	PTEN:p.T319*
317	PTEN:p.T319*
319	PTEN:p.T319Ter
319	PTEN p.T319fs
319	PTEN:p.V317Dfs*4
319	PTEN:p.T319*
319	PTEN:p.T319*
321	PTEN:p.N323Mfs*21
323	PTEN:p.N323Kfs*2
325	PTEN p.L325R
329	PTEN:p.N329Kfs*14
331	PTEN p.D331fs
336	PTEN p.Y336*
340	PTEN p.N340fs
341	PTEN p.F341C
345	PTEN p.L345P
346	PTEN pY346*

35	Oza *et al.* [50]	2011	17/33 (51.5%)	Lack of data	Lack of data	Lack of data	–
36	Wang *et al.* [44]	2018	10/17 (59%)	Lack of data	Lack of data	Lack of data	–
37	Kafshdooz *et al.* [51]	2015	0/75 (0%)	–	–	–	–
38	Djordjevic *et al.* [52]	2012	66/154 (42.9%)	Lack of data	Lack of data	Lack of data	The largest number of mutations in exon 8 (22,9% of mutations)
39	Polymeros *et al.* [53]	2020	25/57 (44%)	1	24	PTEN p.D24V	–
				2	27	PTEN p.Y27C	
				5	118	PTEN p.H118L	
					124	PTEN p.C124G	
					126	PTEN p.A126T	
					130	PTEN p.R130G	
					130	PTEN p.R130G	
					130	PTEN p.R130G	
					130	PTEN p.R130G	
					132	PTEN p.G132D	
					138	PTEN p.Y138H	
				6	165	PTEN p.G165R	
					173	PTEN p.R173C	
				7	233	PTEN p.R233*	
					233	PTEN p.R233*	
					233	PTEN p.R233*	
					238	PTEN p.F238L	
				8	278	PTEN p.F278L	
					278	PTEN p.F278L	
					335	PTEN p.R335*	
40	Kogan *et al.* [54]	2018	17/40 (42.5%)	5	126	PTEN p.A126T	–
					85	PTEN:p.V85Dfs*12	
					86	PTEN p.A86P	
					90	PTEN:p.F90Lfs*9	
					93	PTEN p.H93R	
					124	PTEN p.C124Y	
					126	PTEN p.A126T	
					130	PTEN p.R130*	
					130	PTEN p.R130Q	
				6	177	PTEN:p.Y177_Y188del	
					204	PTEN:p.P204Nfs*38	
					267	PTEN:p.N267Tfs*5	
				7	267	PTEN:p.K267Rfs*9	
					268	PTEN:p.D268Gfs*30	
					268	PTEN:p.D268Gfs*30	
				8	281	PTEN p.P281S	
					323	PTEN:p.N323Kfs*2	
41	Bendell *et al.* [58]	2018	1/12 (8.3%)	6	193	PTEN:p.L193Qfs*6	–
42	Obata *et al.* [59]	2016	1/1 (100%)	8	323	PTEN:p.E323Gfs*3	–
43	Ariura *et al.* [60]	2017	1/1 (100%)	5	130	PTEN:p.R130G	–
44	Sullivan *et al.* [61]	2021	23/42 (55%)	Lack of data	Lack of data	Lack of data	–
Uterine carcinocarcoma							
45	Hembree *et al.* [62]	2016	2/9 (22%)	5	97	PTEN p.Q97*	–
				7	233	PTEN p.R233*	
Melanoma							
46	Motaparthi *et al.* [60]	2019	1/1 (100%)	2	38	PTEN p.P38S	–
47	Zhou *et al.* [61]	2000	0/34 (0%)	–	–	–	–

48	Agosto–Arroyo *et al.* [62]	2017	1/1 (100%)	5	130	PTEN:p.R130Efs*4	–
Lymphoma							
49	Galanina *et al.* [63]	2019	1/1 (100%)	Lack of data	Lack of data	Lack of data	Peripheral T cell lymphoma
50	Ishiguro *et al.* [64]	2020	1/1 (100%)	7	230	PTEN p.G230E	Splenic marginal zone lymphoma
T-cell acute lymphoblastic leukaemia							
51	Trinquand *et al.* [65]	2013	17/175 (10%)	Lack of data	Lack of data	Lack of data	–
Follicular dendritic cell sarcoma							
52	Starr *et al.* [66]	2015	1/1 (100%)	7	267	PTEN:p.K267Rfs*9	Location of the tumour: thyroid gland
Colorectal cancer							
53	Lin *et al.* [67]	2015	5/198 (2.5%)	1	44	PTEN:p.P44=	–
				5	106	PTEN:p.G106R	
				8	299	PTEN p.E299*	
54	Peeters *et al.* [68]	2013	15/288 (6%)	Lack of data	Lack of data	Lack of data	–
55	Li *et al.* [15]	2009	1/57 (1.75%)	8	312	PTEN p.D312=	Lack of PTEN expression in immunochemistry 95/327 (29%)
Gastric cancer							
56	Byun *et al.* [66]	2003	0/55 (0%)	–	–	–	–
57	Werner *et al.* [67]	2013	5/16 (31%)	2	36	G36E	Gastric cancer and esophagogastric junction cancer
				9	397	H397Y	
Pancreatic neuroendocrine tumour							
58	Martin *et al.* [68]	2019	1/1 (100%)	1	16	PTEN p.Y16*	–
Hepatic angiosarcoma							
59	Tate *et al.* [69]	2007	1/ 2 (50%)	7	214	PTEN p.Q214*	–
Adenoid cystic carcinoma of salivary glands							
60	Falbo *et al.* [70]	2011	0/3 (0%)	–	–	–	–
Glioma							
61	Staal *et al.* [71]	2002	1/1 (100%)	7	234	PTEN p. R234Q	Germinal mutation
62	Kraus *et al.* [72]	2000	6/42 (14.3%)	Lack of data	Lack of data	Lack of data	Glioblastoma
63	Malmer *et al.* [73]	2001	0/8 (0%)	–	–	–	–
64	Reis *et al.* [74]	2001	2/2 (100%)	5	154	PTEN p.F154F	Glioblastoma – 2 tumours in 1 patient
				7	233 257	PTEN p.R233* PTEN p.F257L	
65	Ohgaki *et al.* [75]	2004	78/332 (23.5%)	Lack of data	Lack of data	Lack of data	Glioblastoma
66	Actor *et al.* [76]	2002	9/20 (45%)	1	15	PTEN:p.R15Gfs*25	Gliosarcoma
				3	66	PTEN p.K66N	
				4	76	PTEN:p.Y76*	
				5	130 109 130 130 132	PTEN p.R130Q PTEN:p.D109Gfs*6 PTEN p.R130* PTEN p.R130Q PTEN p.G132D	
				6	189	PTEN p.R189*	
				8	319	PTEN:p.T319*	

67	Rasheed *et al*. [77]	1997	16/98 (16.3%)	1	Lack of data	Lack of data	13/42 glioblastoma 3/13 anaplastic astrocytoma 0/21 low–grade adult glioma 0/22 childhood glioma
				4	80	PTEN p.K80N	
				5	96 126 130 130 132	PTEN p.P96L PTEN p.A126P PTEN p.R130* PTEN p.R130Q PTEN:p.G132S	
				6	171 173 173	PTEN p.Q171* PTEN p.R173C PTEN p.R173C	
				7	214 248	PTEN p.Q214* Lack of data	
				8	377 377	Lack of data Lack of data	
68	Fukushima *et al*. [78]	2006	14/63 (21%)	2	49	PTEN p.N49T	Glioblastoma
				5	125	PTEN p.K125N	
				6	196	Lack of data	
				7	213 245 254–255 256	PTEN p.P213H PTEN p.Q245* Lack of data PTEN p.E256K	
				8	274 335 336	PTEN p.W274* PTEN p.R335* Lack of data	
69	Li *et al*. [79]	2014	1/1 (100%)	7	234	PTEN p. R234Q	Anaplastic oligodendroglioma
70	Broniscer *et al*. [80]	2009	1/23 (4.3%)	5	130	PTEN p.R130*	–

Supplementary Table S2.

Author	Exon	Codon	HGVS			Protien	ClinVar verdict
GLIOMA							
Staal	7	234	R234Q	PTEN(NM_000314.8):c.701G>A (p.Arg234Gln)	chr10-89717676-G-A	PTEN p. R234Q	Pathogenic
Reis	5	154	F154F	PTEN(NM_000314.8):c.462C>T (p.Phe154=)	chr10-89692978-C-T	PTEN p.F154F	Likely Benign
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	7	257	F257L	PTEN(NM_000314.8):c.771C>G (p.Phe257Leu)	chr10-89717746-C-G	PTEN p.F257L	Likely Pathogenic
Actor	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	3	66	K66N	PTEN(NM_000314.8):c.198G>T (p.Lys66Asn)	chr10-89685303-G-T	PTEN p.K66N	Likely Pathogenic
	1	15	R15Gfs*25	PTEN(NM_000314.8):c.42_52del	chr10-89624268-GA... AG (11bp)	PTEN:p.R15Gfs*25	Pathogenic
	4	76	Y76STOP	PTEN(NM_000314.8):c.227_228delAT	chr10-89690819-TA-	PTEN:p.Y76*	Pathogenic
	8	319	T319STOP	PTEN(NM_000314.8):c.955_958delACTT	chr10-89720799-TACT-	PTEN:p.T319*	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	6	189	R189STOP	PTEN(NM_000314.8):c.565A>T (p.Arg189Ter)	chr10-89711947-A-T	PTEN p.R189*	Pathogenic
	5	132	G132D	PTEN(NM_000314.8):c.395G>A (p.Gly132Asp)	chr10-89692911-G-A	PTEN p.G132D	Pathogenic
	5	109	D109Gfs*6	PTEN(NM_000314.8):c.325dupG	chr10-89692842--G	PTEN:p.D109Gfs*6	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
Rasheed	1	Lack of data	-	-	-	-	-
	4	80	K80N	PTEN(NM_000314.8):c.240A>T (p.Lys80Asn)	chr10-89690833-A-T	PTEN p.K80N	Pathogenic
	5	96	P96L	PTEN(NM_000314.8):c.287C>T (p.Pro96Leu)	chr10-89692803-C-T	PTEN p.P96L	Pathogenic
	5	132	G132S	PTEN(NM_000314.8):c.394G>A (p.Gly132Ser)	chr10-89692910-G-A	PTEN:p.G132S	Pathogenic
	5	126	A126P	PTEN(NM_001304717.5):c.376G>C (p.Ala126Pro)	chr10-89624083-G-C	PTEN p.A126P	Uncertain Significance
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	6	173	R173C	PTEN(NM_000314.8):c.517C>T (p.Arg173Cys)	chr10-89711899-C-T	PTEN p.R173C	Pathogenic
	6	173	R173C	PTEN(NM_000314.8):c.517C>T (p.Arg173Cys)	chr10-89711899-C-T	PTEN p.R173C	Pathogenic
	6	171	Q171STOP	PTEN(NM_000314.8):c.511C>T (p.Gln171Ter)	chr10-89711893-C-T	PTEN p.Q171*	Pathogenic
	6	Lack of data	-	-	-	-	-
	7	248	Lack of data	-	-	-	-
	7	214	Q214STOP	PTEN(NM_000314.8):c.640C>T (p.Gln214Ter)	chr10-89717615-C-T	PTEN p.Q214*	Pathogenic
	8	377	Lack of data	–	–	–	–
	8	377	Lack of data	–	–	–	–

Author	Exon	Codon		HGVS		Protien	ClinVar verdict
Fukushima	2	49	N49T	PTEN(NM_000314.8):c.146A>C (p.Asn49Thr)	chr10-89653848-A-C	PTEN p.N49T	Likely Pathogenic
	5	125	K125N	PTEN(NM_000314.8):c.375A>T (p.Lys125Asn)	chr10-89692891-A-T	PTEN p.K125N	Likely Pathogenic
	6	196	Lack of data	–	–	–	–
	7	213	P213H	PTEN(NM_000314.8):c.638C>A (p.Pro213His)	chr10-89717613-C-A	PTEN p.P213H	Likely Pathogenic
	7	256	E256K	PTEN(NM_000314.8):c.766G>A (p.Glu256Lys)	chr10-89717741-G-A	PTEN p.E256K	Likely Pathogenic
	7	245	Q245STOP	PTEN(NM_000314.8):c.733C>T (p.Gln245Ter)	chr10-89717708-C-T	PTEN p.Q245*	Pathogenic
	7	254-255	Lack of data	–	–	–	–
	8	274	W274STOP	PTEN(NM_000314.8):c.822G>A (p.Trp274Ter)	chr10-89720671-G-A	PTEN p.W274*	Pathogenic
	8	336	Lack of data	–	–	–	–
	8	335	R335STOP	PTEN(NM_000314.8):c.1003C>T (p.Arg335Ter)	chr10-89720852-C-T	PTEN p.R335*	Pathogenic
Li	7	234	R234Q	PTEN(NM_000314.8):c.701G>A (p.Arg234Gln)	chr10-89717676-G-A	PTEN p. R234Q	Pathogenic
Broniscer	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
				HEPATIC ANGIOSARCOMA			
Tate	7	214	Q214STOP	PTEN(NM_000314.8):c.640C>T (p.Gln214Ter)	chr10-89717615-C-T	PTEN p.Q214*	Pathogenic
				PANCREATIC NEUROENDOCRINE TUMOR			
Martin	1	16	Y16STOP	PTEN(NM_000314.8):c.48T>A (p.Tyr16Ter)	chr10-89624274-T-A	PTEN p.Y16*	Pathogenic
				PANCREATIC CANCER			
Uemura	7	234	R234Q	PTEN(NM_000314.8):c.701G>A (p.Arg234Gln)	chr10-89717676-G-A	PTEN p. R234Q	Pathogenic
				COLORECTAL CANCER			
Li	8	312	D312D	PTEN(NM_000314.8):c.936C>T (p.Asp312=)	chr10-89720785-C-T	PTEN p.D312=	Likely Benign
Lin	5	106	G106R	–	–	–	–
	8	299	E299STOP	PTEN(NM_000314.8):c.895G>T (p.Glu299Ter)	chr10-89720744-G-T	PTEN p.E299*	Pathogenic
	1	44	P44=	PTEN(NM_001304717.5):c.132T>C	chr10-89623838-T-C	PTEN:p.P44=	Likely Benign
				FOLLICULAR DENDRITIC CELL SARCOMA			
Starr	7	267	K267fs*9	PTEN(NM_000314.8):c.800delA	chr10-89717770-A-	PTEN:p.K267Rfs*9	Pathogenic
				LYMPHOMA			
Ishiguro	7	230	G230E	PTEN(NM_000314.8):c.689G>A (p.Gly230Glu)	chr10-89717664-G-A	PTEN p.G230E	Uncertain Significance
				MELANOMA			
Agosto-Arroyo	5	130	p.R130Efs*4	PTEN(NM_001304717.5):c.388delC	chr10-89624094-C-	PTEN:p.Q130Kfs*45	Pathogenic
Motaparthi	2	38	P38S	PTEN(NM_000314.8):c.112C>T (p.Pro38Ser)	chr10-89653814-C-T	PTEN p.P38S	Pathogenic

Author	Exon	Codon	HGVS			Protien	ClinVar verdict
UTERINE CARCINOSARCOMA							
Hembree	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	5	97	Q97STOP	PTEN(NM_000314.8):c.289C>T (p.Gln97Ter)	chr10-89692805-C-T	PTEN p.Q97*	Pathogenic
ENDOMETRIAL CANCER							
Ariura	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
Obata	8	323	E323Gfs*3	PTEN(NM_001304717.5):c.968delA (p.Glu323GlyfsTer3)	chr10-89692965-A-	E323Gfs*3	Pathogenic
Bendell	6	193	L193fs*6	PTEN(NM_000314.8):c.578_588del	chr10-89711959-CT... CA (11bp)	PTEN:p.L193Qfs*5	Pathogenic
Kogan	5	126	A126T	PTEN(ENST00000371953.3):c.376G>A (p.Ala126Thr)	chr10-89624083-G-A	PTEN p.A126T	Uncertain Significance
	6	267	N267Tfs*5	PTEN(NM_001304717.5):c.800delA (p.Asn267ThrfsTer5)	chr10-89692796-A-	PTEN:p.N267Tfs*5	Pathogenic
	5	85	V85Dfs*12	PTEN(NM_000314.8):c.254_260delTTGCACA	chr10-89692770-TTGCACA (7bp)	PTEN:p.V85Dfs*12	Pathogenic
	5	86	A86P	PTEN(NM_000314.8):c.256G>C (p.Ala86Pro)	chr10-89692772-G-C	PTEN p.A86P	Likely Pathogenic
	7	268	D268Gfs*30	PTEN(NM_000314.8):c.800dupA	chr10-89717770--A	PTEN:p.D268Gfs*30	Pathogenic
	8	323	N323Kfs*2	PTEN(NM_000314.8):c.968dupA	chr10-89720812--A	PTEN:p.N323Kfs*2	Pathogenic
	5	90	F90Lfs*9	PTEN(NM_000314.8):c.270delT	chr10-89692783-T-	PTEN:p.F90Lfs*9	Pathogenic
	5	93	H93R	PTEN(NM_001304717.5):c.278A>G (p.His93Arg)	chr10-89623985-A-G	PTEN p.H93R	Uncertain Significance
	7	268	D268Gfs*30	PTEN(NM_000314.8):c.800dupA	chr10-89717770--A	PTEN:p.D268Gfs*30	Pathogenic
	5	124	C124Y	PTEN(NM_000314.8):c.371G>A (p.Cys124Tyr)	chr10-89692887-G-A	PTEN p.C124Y	Pathogenic
	6	204	P204Nfs38	PTEN(NM_000314.8):c.609_610delTC (p.Pro204AsnfsTer38)	chr10-89711991-TC-	PTEN:p.P204Nfs*38	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	6	177	Y177_Y188del	PTEN(NM_000314.8):c.529_564del (p.Tyr177_Tyr188del)	chr10-89711911-TA... AT (36bp)	PTEN:p.Y177_Y188del	Uncertain Significance
	8	281	P281S	PTEN(NM_000314.8):c.841C>T (p.Pro281Ser)	chr10-89720690-C-T	PTEN p.P281S	Likely Pathogenic
	5	126	A126T	PTEN(NM_001304717.5):c.376G>A (p.Ala126Thr)	chr10-89624083-G-A	PTEN p.A126T	Uncertain Significance
	7	267	K267Rfs*9	PTEN(NM_000314.8):c.800delA (p.Lys267ArgfsTer9)	chr10-89717770-A-	PTEN:p.K267Rfs*9	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
Polymeros	2	27	Y27C	PTEN(NM_000314.8):c.80A>G (p.Tyr27Cys)	chr10-89653782-A-G	PTEN p.Y27C	Pathogenic
	1	24	D24V	PTEN(NM_000314.8):c.71A>T (p.Asp24Val)	chr10-89624297-A-T	PTEN p.D24V	Pathogenic

Author	Exon	Codon		HGVS		Protien	ClinVar verdict
	5	138	Y138H	PTEN(NM_000314.8):c.412T>C (p.Tyr138His)	chr10-89692928-T-C	PTEN p.Y138H	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	126	A126T	PTEN(NM_001304717.5):c.376G>A (p.Ala126Thr)	chr10-89624083-G-A	PTEN p.A126T	Uncertain Significance
	5	124	C124G	PTEN(NM_000314.8):c.370T>G (p.Cys124Gly)	chr10-89692886-T-G	PTEN p.C124G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	Lack of data	–	–	–	–	–
	5	Lack of data	–	–	–	–	–
	5	118	H118L	PTEN(NM_000314.8):c.353A>T (p.His118Leu)	chr10-89692869-A-T	PTEN p.H118L	Likely Pathogenic
	5	132	G132D	PTEN(NM_000314.8):c.395G>A (p.Gly132Asp)	chr10-89692911-G-A	PTEN p.G132D	Pathogenic
	6	173	R173C	PTEN(NM_000314.8):c.517C>T (p.Arg173Cys)	chr10-89711899-C-T	PTEN p.R173C	Pathogenic
	6	165	G165R	PTEN(NM_000314.8):c.493G>A (p.Gly165Arg)	chr10-89711875-G-A	PTEN p.G165R	Pathogenic
	7	Lack of data	–	–	–	–	–
	7	Lack of data	–	–	–	–	–
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	7	Lack of data	–	–	-	–	–
	7	238	F238L	PTEN(NM_000314.8):c.712T>C (p.Phe238Leu)	chr10-89717687-T-C	PTEN p.F238L	Pathogenic
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	8	335	R335STOP	PTEN(NM_000314.8):c.1003C>T (p.Arg335Ter)	chr10-89720852-C-T	PTEN p.R335*	Pathogenic
	8	278	F278LSTOP	PTEN(NM_000314.8):c.832T>C (p.Phe278Leu)	chr10-89720681-T-C	PTEN p.F278L	Likely Pathogenic
	8	278	F278LSTOP	PTEN(NM_000314.8):c.832T>C (p.Phe278Leu)	chr10-89720681-T-C	PTEN p.F278L	Likely Pathogenic
McConechy	5	130	R130P	PTEN(NM_000314.8):c.389G>C (p.Arg130Pro)	chr10-89692905-G-C	PTEN p.130P	Pathogenic
	5	99	E99STOP	PTEN(NM_000314.8):c.295G>T (p.Glu99Ter)	chr10-89692811-G-T	PTEN p.E99*	Pathogenic
	5	99	E99STOP	PTEN(NM_000314.8):c.295G>T (p.Glu99Ter)	chr10-89692811-G-T	PTEN p.E99*	Pathogenic
	2	33	p.I33del	PTEN(NM_000314.8):c.97_99delATT	chr10-89653796-ATT	PTEN:p.I33del	Pathogenic
	6	177	Y177STOP	PTEN(NM_000314.8):c.531T>G (p.Tyr177Ter)	chr10-89711913-T-G	PTEN p.Y177*	Pathogenic
	8	288	p.E288fs	PTEN(NM_000314.8):c.867delA	chr10-89720712-A	PTEN:p.V290*	Pathogenic
	5	89	P89fs	–	–	–	–

Author	Exon	Codon		HGVS		Protien	ClinVar verdict
	7	214	Q214STOP	PTEN(NM_000314.8):c.640C>T (p.Gln214Ter)	chr10-89717615-C-T	PTEN p.214*	Pathogenic
	5	136	C136Y	PTEN(NM_000314.8):c.407G>A (p.Cys136Tyr)	chr10-89692923-G-A	PTEN p.C136Y	Pathogenic
	8	291	E291Kfs*16	PTEN(NM_000314.8):c.870delA	chr10-89720719-A	PTEN:p.E291Kfs*16	Pathogenic
	1	15	R15I	PTEN(NM_000314.8):c.44G>T (p.Arg15Ile)	chr10-89624270-G-T	PTEN p.R15I	Pathogenic
	5	135	p.I135fs	PTEN(NM_000314.8):c.404dupT	chr10-89692921--T	p.Cys136MetfsTer44	Pathogenic
	1	5	I5N	PTEN(NM_000314.8):c.14T>A (p.Ile5Asn)	chr10-89624240-T-A	PTEN p.I5N	Likely Pathogenic
	8	319	p.T319fs	PTEN(NM_000314.8):c.955_958delACTT	chr10-89720799-TACT	p.Thr319Ter	Pathogenic
	8	321	p.T321fs	PTEN(NM_000314.8):c.968delA (p.Asn323MetfsTer21)	chr10-89720812-A-	PTEN:p.N323Mfs*21	Pathogenic
	8	301	D301fs	–	–	–	–
	1	16	Y16STOP	PTEN(NM_000314.8):c.48T>A (p.Tyr16Ter)	chr10-89624274-T-A	PTEN p.Y16*	Pathogenic
	5	98	L98R	PTEN(NM_001304718.2):c.293T>G (p.Leu98Arg)	chr10-89720733	PTEN p.L98R	Likely Pathogenic
	8	317	p.V317fs	PTEN(NM_000314.8):c.950_954delTACTT (p.Val317AspfsTer6)	chr10-89720799-TACTT-	PTEN:p.V317Dfs*6	Pathogenic
	6	168	I168fs	–	–	–	–
	1	23	L23fs	–	–	–	–
	6	182	L182STOP	PTEN(NM_000314.8):c.545T>G (p.Leu182Ter)	chr10-89711927-T-G	PTEN p.L182*	Pathogenic
	1	13	K13T	PTEN(NM_000314.8):c.38A>C (p.Lys13Thr)	chr10-89624264-A-C	PTEN p.K13T	Likely Pathogenic
	5	112	L112V	PTEN(NM_001304717.5):c.334C>G (p.Leu112Val)	chr10-89624041-C-G	PTEN p.L112V	Uncertain Significance
	5	92	D92E	PTEN(NM_000314.8):c.276C>G (p.Asp92Glu)	chr10-89692792-C-G	PTEN p.D92E	Pathogenic
	5	136	C136Y	PTEN(NM_000314.8):c.407G>A (p.Cys136Tyr)	chr10-89692923-G-A	PTEN p.C136Y	Pathogenic
	5	95	P95L	PTEN(NM_000314.8):c.284C>T (p.Pro95Leu)	chr10-89692800-C-T	PTEN p.P95L	Pathogenic
	8	329	N329Kfs*14	PTEN(NM_000314.8):c.987_990delTAAA (p.Asn329LysfsTer14)	chr10-89720833-AAAT-	PTEN:p.N329Kfs*14	Pathogenic
	8	269	K269STOP	PTEN(NM_000314.8):c.805A>T (p.Lys269Ter)	chr10-89720654-A-T	PTEN p.K269*	Pathogenic
	8	317	p.V317fs	PTEN(NM_000314.8):c.955_958delACTT (p.Thr319Ter)	chr10-89720799-TACT-	PTEN:p.T319*	Pathogenic
	6	171	Q171STOP	PTEN(NM_000314.8):c.511C>T (p.Gln171Ter)	chr10-89711893-C-T	PTEN p.Q171*	Pathogenic
	8	315	Y315STOP	PTEN(NM_000314.8):c.945T>G (p.Tyr315Ter)	chr10-89720794-T-G	PTEN p.Y315*	Pathogenic
	7	218	C218STOP	PTEN(NM_000314.8):c.654C>A (p.Cys218Ter)	chr10-89717629-C-A	PTEN p.C218*	Pathogenic
	1	25	L25S	PTEN(NM_000314.8):c.74T>C (p.Leu25Ser)	chr10-89624300-T-C	PTEN p.L25S	Likely Pathogenic
	5	101	I101S	PTEN(NM_000314.8):c.302T>G (p.Ile101Ser)	chr10-89692818-T-G	PTEN p.I101S	Pathogenic

Author	Exon	Codon		HGVS		Protien	ClinVar verdict
	1	20	G20E	PTEN(NM_000314.8):c.59G>A (p.Gly20Glu)	chr10-89624285-G-A	PTEN p.G20E	Likely Pathogenic
	5	136	C136R	PTEN(NM_000314.8):c.406T>C (p.Cys136Arg)	chr10-89692922-T-C	PTEN p.C136R	Pathogenic
	8	340	N340fs	–	–	–	–
	6	176	Y176STOP	PTEN(NM_000314.8):c.528T>G (p.Tyr176Ter)	chr10-89711910-T-G	PTEN p.Y176*	Pathogenic
	8	317	p.V317fs	PTEN(NM_000314.8):c.955_958delACTT (p.Thr319Ter)	chr10-89720799-TACT-	PTEN:p.T319*	Pathogenic
	8	317	p.V317fs	PTEN(NM_000314.8):c.955_958delACTT (p.Thr319Ter)	chr10-89720799-TACT-	PTEN:p.T319*	Pathogenic
	5	157	E157Gfs*23	PTEN(NM_000314.8):c.469dupG (p.Glu157GlyfsTer23)	chr10-89692982--G	PTEN:p.E157Gfs*23	Pathogenic
	5	136	C136R	PTEN(NM_000314.8):c.406T>C (p.Cys136Arg)	chr10-89692922-T-C	PTEN p.C136R	Pathogenic
	1	16	Y16STOP	PTEN(NM_000314.8):c.48T>A (p.Tyr16Ter)	chr10-89624274-T-A	PTEN p.Y16*	Pathogenic
	8	293	G293STOP	PTEN(NM_000314.8):c.877G>T (p.Gly293Ter)	chr10-89720726-G-T	PTEN p.G293*	Pathogenic
	1	11	R11I	PTEN(NM_000314.8):c.32G>T (p.Arg11Ile)	chr10-89624258-G-T	PTEN p.R11I	Likely Pathogenic
	7	217	V217D	PTEN(NM_000314.8):c.650T>A (p.Val217Asp)	chr10-89717625-T-A	PTEN p.V217D	Likely Pathogenic
	8	288	E288STOP	PTEN(NM_000314.8):c.862G>T (p.Glu288Ter)	chr10-89720711-G-T	PTEN p.E288*	Pathogenic
	1	16	Y16fs	–	–	–	–
	5	121	A121Dfs*4	PTEN(NM_000314.8):c.362_363delCA (p.Ala121AspfsTer4)	chr10-89692878-CA-	PTEN:p.A121Dfs*4	Pathogenic
	6	177	Y177fs	–	–	–	–
	7	259	H259P	PTEN(NM_000314.8):c.776A>C (p.His259Pro)	chr10-89717751-A-C	PTEN p.H259P	Likely Pathogenic
	5	126	A126S	PTEN(NM_000314.8):c.376G>T (p.Ala126Ser)	chr10-89692892-G-T	PTEN p.A126S	Uncertain Significance
	6	177	Y177H	PTEN(NM_000314.8):c.529T>C (p.Tyr177His)	chr10-89711911-T-C	PTEN p.Y177H	Likely Pathogenic
	7	218	C218STOP	PTEN(NM_000314.8):c.654C>A (p.Cys218Ter)	chr10-89717629-C-A	PTEN p.C218*	Pathogenic
	5	104	F104V	PTEN(NM_000314.8):c.310T>G (p.Phe104Val)	chr10-89692826-T-G	PTEN p.F104V	Likely Pathogenic
	5	112	L112P	PTEN(NM_000314.8):c.335T>C (p.Leu112Pro)	chr10-89692851-T-C	PTEN p.L112P	Pathogenic
	1	23	L23STOP	PTEN(NM_000314.8):c.68T>G (p.Leu23Ter)	chr10-89624294-T-G	PTEN p.L23*	Pathogenic
	1	24	D24fs	–	–	–	–
	8	317	p.V317fs	PTEN(NM_000314.8):c.955_958delACTT (p.Thr319Ter)	chr10-89720799-TACT-	PTEN:p.T319*	Pathogenic
	5	136	C136Y	PTEN(NM_000314.8):c.407G>A (p.Cys136Tyr)	chr10-89692923-G-A	PTEN p.C136Y	Pathogenic
	6	212	N212fs	–	–	–	–

Author	Exon	Codon		HGVS		Protien	ClinVar verdict
	6	185	H185fs	–	–	–	–
	9	346	Y346STOP	PTEN(NM_000314.8):c.1038C>G (p.Tyr346Ter)	chr10-89725055-C-G	PTEN pY346*	Pathogenic
	5	107	D107Y	PTEN(NM_000314.8):c.319G>T (p.Asp107Tyr)	chr10-89692835-G-T	PTEN p.D107Y	Pathogenic
	7	247	L247S	PTEN(NM_000314.8):c.740T>C (p.Leu247Ser)	chr10-89717715-T-C	PTEN p.L247S	Pathogenic
	8	277	T277R	PTEN(NM_000314.8):c.830C>G (p.Thr277Arg)	chr10-89720679-C-G	PTEN p.T277R	Pathogenic
	1	11	R11STOP	PTEN(NM_000314.8):c.31A>T (p.Arg11Ter)	chr10-89624257-A-T	PTEN p.R11*	Pathogenic
	8	317	p.V317fs	PTEN(NM_000314.8):c.955_958delACTT (p.Thr319Ter)	chr10-89720799-TACT-	PTEN:p.T319*	Pathogenic
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	5	155	Y155fs	PTEN(NM_000314.8):c.464_467delATGG (p.Tyr155TrpfsTer3)	chr10-89692980-ATGG-	PTEN:p.Y155Wfs*3	Pathogenic
	7	246	P246L	PTEN(NM_000314.8):c.737C>T (p.Pro246Leu)	chr10-89717712-C-T	PTEN p.P246L	Pathogenic
	5	111	W111STOP	PTEN(NM_000314.8):c.333G>A (p.Trp111Ter)	chr10-89692849-G-A	PTEN p.W111*	Pathogenic
	8	295	p.L295fs	PTEN(NM_000314.8):c.883_884delCT (p.Leu295MetfsTer2)	chr10-89720732-CT-	PTEN:p.L295Mfs*2	Pathogenic
	5	124	C124S	PTEN(NM_000314.8):c.371G>C (p.Cys124Ser)	chr10-89692887-G-C	PTEN p.C124S	Pathogenic
	1	6	K6T	PTEN(NM_000314.8):c.17A>C (p.Lys6Thr)	chr10-89624243-A-C	PTEN p.K6T	Likely Pathogenic
	5	147	K147STOP	PTEN(NM_000314.8):c.439A>T (p.Lys147Ter)	chr10-89692955-A-T	PTEN p.K147*	Pathogenic
	5	152	L152R	PTEN(NM_000314.8):c.455T>G (p.Leu152Arg)	chr10-89692971-T-G	PTEN p.L152R	Likely Pathogenic
	6	166	V166A	PTEN(NM_000314.8):c.497T>C (p.Val166Ala)	chr10-89711879-T-C	PTEN p.V166A	Pathogenic
	5	132	G132V	PTEN(NM_000314.8):c.395G>T (p.Gly132Val)	chr10-89692911-G-T	PTEN p.G132V	Pathogenic
	5	93	H93D	PTEN(NM_000314.8):c.277C>G (p.His93Asp)	chr10-89692793-C-G	PTEN p.H93D	Pathogenic
	6	195	F195S	PTEN(NM_000314.8):c.584T>C (p.Phe195Ser)	chr10-89711966-T-C	PTEN p.F195S	Likely Pathogenic
	1	17	Q17STOP	PTEN(NM_000314.8):c.49C>T (p.Gln17Ter)	chr10-89624275-C-T	PTEN p.Q17*	Pathogenic
	5	129	G129E	PTEN(NM_000314.8):c.386G>A (p.Gly129Glu)	chr10-89692902-G-A	PTEN p.G129E	Pathogenic
	7	245	Q245STOP	PTEN(NM_000314.8):c.733C>T (p.Gln245Ter)	chr10-89717708-C-T	PTEN p.Q245*	Pathogenic
	2	36	G36R	PTEN(NM_000314.8):c.106G>C (p.Gly36Arg)	chr10-89653808-G-C	PTEN p.G36R	Likely Pathogenic
	1	15	R15STOP	PTEN(NM_000314.8):c.43A>T (p.Arg15Ter)	chr10-89624269-A-T	PTEN p.R15*	Pathogenic
	1	20	G20STOP	PTEN(NM_000314.8):c.58G>T (p.Gly20Ter)	chr10-89624284-G-T	PTEN p.G20*	Pathogenic
	1	25	p.L25fs	PTEN(NM_000314.8):c.75_78delGACC (p.Leu25PhefsTer28)	chr10-89624301-GACC-	PTEN:p.L25Ffs*28	Pathogenic
	5	119	p.V119fs	PTEN(NM_000314.8):c.357delT (p.Ala120GlnfsTer14)	chr10-89692873-T-	PTEN:p.A120Qfs*14	Pathogenic

Author	Exon	Codon		HGVS		Protien	ClinVar verdict
	8	317	p.V317fs	PTEN(NM_000314.8):c.955_958delACTT (p.Thr319Ter)	chr10-89720799-TACT-	PTEN:p.T319*	Pathogenic
	5	128	K128Q	PTEN(NM_000314.8):c.382A>C (p.Lys128Gln)	chr10-89692898-A-C	PTEN p.K128Q	Pathogenic
	8	319	p.T319fs	–	–	–	–
	1	24	D24V	PTEN(NM_000314.8):c.71A>T (p.Asp24Val)	chr10-89624297-A-T	PTEN p.D24V	Pathogenic
	7	172	p.R172fs	–	–	–	–
	8	293	G293V	PTEN(NM_000314.8):c.878G>T (p.Gly293Val)	chr10-89720727-G-T	PTEN p.G293V	Likely Pathogenic
	8	285	E285STOP	PTEN(NM_000314.8):c.853G>T (p.Glu285Ter)	chr10-89720702-G-T	PTEN p.E285*	Pathogenic
	5	91	p.E91fs	PTEN(NM_000314.8):c.272_291del (p.Glu91AlafsTer9)	hr10-89692787-GA... CA (20bp)-	PTEN:p.E91Afs*9	Pathogenic
	2	43	E43STOP	PTEN(NM_000314.8):c.127G>T (p.Glu43Ter)	chr10-89653829-G-T	PTEN p.E43*	Pathogenic
	8	331	p.D331fs	–	–	–	–
	8	300	p.I300fs	PTEN(NM_000314.8):c.900delC (p.Ile300MetfsTer7)	chr10-89720749-C-	PTEN:p.I300Mfs*7	Pathogenic
	2	37	p.F37fs	–	–	–	–
	8	319	p.T319fs	PTEN(NM_000314.8):c.950delT (p.Val317AspfsTer4)	chr10-89720799-T-	PTEN:p.V317Dfs*4	Pathogenic
	5	127	G127V	PTEN(NM_000314.8):c.380G>T (p.Gly127Val)	chr10-89692896-G-T	PTEN p.G127V	Pathogenic
	5	92	D92Y	PTEN(NM_000314.8):c.274G>T (p.Asp92Tyr)	chr10-89692790-G-T	PTEN p.D92Y	Pathogenic
	5	135	I135K	PTEN(NM_000314.8):c.404T>A (p.Ile135Lys)	chr10-89692920-T-A	PTEN p.I135K	Pathogenic
	6	70	S170I	PTEN(NM_000314.8):c.509G>T (p.Ser170Ile)	chr10-89711891-G-T	PTEN p.S170I	Pathogenic
	6	177	Y177STOP	PTEN(NM_000314.8):c.531T>G (p.Tyr177Ter)	chr10-89711913-T-G	PTEN p.Y177*	Pathogenic
	8	317	p.V317fs	PTEN(NM_000314.8):c.955_958delACTT (p.Thr319Ter)	chr10-89720799-TACT-	PTEN:p.T319*	Pathogenic
	8	325	L325R	PTEN(NM_000314.8):c.974T>G (p.Leu325Arg)	chr10-89720823-T-G	PTEN p.L325R	Likely Pathogenic
	2	40	E40STOP	PTEN(NM_000314.8):c.118G>T (p.Glu40Ter)	chr10-89653820-G-T	PTEN p.E40*	Pathogenic
	6	178	Y178STOP	PTEN(NM_000314.8):c.534T>G (p.Tyr178Ter)	chr10-89711916-T-G	PTEN p.Y178*	Pathogenic
	8	278	F278L	PTEN(NM_000314.8):c.834C>G (p.Phe278Leu)	chr10-89720683-C-G	PTEN p.F278L	Likely Pathogenic
	5	111	W111STOP	PTEN(NM_000314.8):c.333G>A (p.Trp111Ter)	chr10-89692849-G-A	PTEN p.W111*	Pathogenic
	7	214	Q214STOP	PTEN(NM_000314.8):c.640C>T (p.Gln214Ter)	chr10-89717615-C-T	PTEN p.Q214*	Pathogenic
	1	20	G20STOP	PTEN(NM_000314.8):c.58G>T (p.Gly20Ter)	chr10-89624284-G-T	PTEN p.G20*	Pathogenic
	8	308	R308Cfs*3	PTEN(NM_000314.8):c.922_923delCG (p.Arg308CysfsTer3)	chr10-89720771-CG-	PTEN:p.R308Cfs*3	Pathogenic

Author	Exon	Codon		HGVS		Protien	ClinVar verdict
	8	323	N323Kfs*2	PTEN(NM_000314.8):c.968dupA (p.Asn323LysfsTer2)	chr10-89720812--A	PTEN:p.N323Kfs*2	Pathogenic
	5	150	E150STOP	PTEN(NM_000314.8):c.448G>T (p.Glu150Ter)	chr10-89692964-G-T	PTEN p.E150*	Pathogenic
	1	18	E18STOP	PTEN(NM_000314.8):c.52G>T (p.Glu18Ter)	chr10-89624278-G-T	PTEN p.E18*	Pathogenic
	7	242	E242STOP	PTEN(NM_000314.8):c.724G>T (p.Glu242Ter)	chr10-89717699-G-T	PTEN p.E242*	Pathogenic
	7	242	E242STOP	PTEN(NM_000314.8):c.724G>T (p.Glu242Ter)	chr10-89717699-G-T	PTEN p.E242*	Pathogenic
	8	298	Q298STOP	PTEN(NM_000314.8):c.892C>T (p.Gln298Ter)	chr10-89720741-C-T	PTEN p.Q298*	Pathogenic
	6	194	p.L194fs	PTEN(NM_000314.8):c.581delT (p.Leu194CysfsTer5)	chr10-89711962-T-	PTEN:p.L194Cfs*5	Pathogenic
	8	307	p.E307fs	–	–	–	–
	8	307	p.E307fs	–	–	–	–
	6	171	Q171STOP	PTEN(NM_000314.8):c.511C>T (p.Gln171Ter)	chr10-89711893-C-T	PTEN p.Q171*	Pathogenic
	5	129	G129R	PTEN(NM_000314.8):c.385G>C (p.Gly129Arg)	chr10-89692901-G-C	PTEN p.G129R	Pathogenic
	5	129	G129R	PTEN(NM_000314.8):c.385G>C (p.Gly129Arg)	chr10-89692901-G-C	PTEN p.G129R	Pathogenic
	5	129	G129R	PTEN(NM_000314.8):c.385G>C (p.Gly129Arg)	chr10-89692901-G-C	PTEN p.G129R	Pathogenic
	5	129	G129R	PTEN(NM_000314.8):c.385G>C (p.Gly129Arg)	chr10-89692901-G-C	PTEN p.G129R	Pathogenic
	1	24	D24H	PTEN(NM_000314.8):c.70G>C (p.Asp24His)	chr10-89624296-G-C	PTEN p.D24H	Pathogenic
	5	92	D92G	PTEN(NM_000314.8):c.275A>G (p.Asp92Gly)	chr10-89692791-A-G	PTEN p.D92G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic

Author	Exon	Codon		HGVS		Protien	ClinVar verdict
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic

Author	Exon	Codon		HGVS		Protien	ClinVar verdict
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130Q	PTEN(NM_000314.8):c.389G>A (p.Arg130Gln)	chr10-89692905-G-A	PTEN p.R130Q	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic

Author	Exon	Codon		HGVS		Protien	ClinVar verdict
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	1	7	E7STOP	PTEN(NM_000314.8):c.19G>T (p.Glu7Ter)	chr10-89624245-G-T	PTEN p.E7*	Pathogenic
	1	7	E7STOP	PTEN(NM_000314.8):c.19G>T (p.Glu7Ter)	chr10-89624245-G-T	PTEN p.E7*	Pathogenic
	1	7	E7STOP	PTEN(NM_000314.8):c.19G>T (p.Glu7Ter)	chr10-89624245-G-T	PTEN p.E7*	Pathogenic
	1	7	E7STOP	PTEN(NM_000314.8):c.19G>T (p.Glu7Ter)	chr10-89624245-G-T	PTEN p.E7*	Pathogenic
	1	7	E7STOP	PTEN(NM_000314.8):c.19G>T (p.Glu7Ter)	chr10-89624245-G-T	PTEN p.E7*	Pathogenic
	1	7	E7STOP	PTEN(NM_000314.8):c.19G>T (p.Glu7Ter)	chr10-89624245-G-T	PTEN p.E7*	Pathogenic
	5	130	R130L	PTEN(NM_000314.8):c.389G>T (p.Arg130Leu)	chr10-89692905-G-T	PTEN p.R130L	Pathogenic
	5	130	R130L	PTEN(NM_000314.8):c.389G>T (p.Arg130Leu)	chr10-89692905-G-T	PTEN p.R130L	Pathogenic
	5	130	R130L	PTEN(NM_000314.8):c.389G>T (p.Arg130Leu)	chr10-89692905-G-T	PTEN p.R130L	Pathogenic
	5	130	R130L	PTEN(NM_000314.8):c.389G>T (p.Arg130Leu)	chr10-89692905-G-T	PTEN p.R130L	Pathogenic
	5	130	R130L	PTEN(NM_000314.8):c.389G>T (p.Arg130Leu)	chr10-89692905-G-T	PTEN p.R130L	Pathogenic
	5	130	p.R130fs	PTEN(NM_000314.8):c.388delC	chr10-89692904-C-	PTEN:p.R130Efs*4	Pathogenic
	5	130	p.R130fs	PTEN(NM_000314.8):c.388delC	chr10-89692904-C-	PTEN:p.R130Efs*4	Pathogenic
	5	130	p.R130fs	PTEN(NM_000314.8):c.388delC	chr10-89692904-C-	PTEN:p.R130Efs*4	Pathogenic
	8	299	E299STOP	PTEN(NM_000314.8):c.895G>T (p.Glu299Ter)	chr10-89720744-G-T	PTEN p.E299*	Pathogenic

Author	Exon	Codon		HGVS		Protien	ClinVar verdict
	8	299	E299STOP	PTEN(NM_000314.8):c.895G>T (p.Glu299Ter)	chr10-89720744-G-T	PTEN p.E299*	Pathogenic
	5	135	I135V	PTEN(NM_000314.8):c.403A>G (p.Ile135Val)	chr10-89692919-A-G	PTEN p.I135V	Pathogenic
	9	345	L345P	PTEN(NM_000314.8):c.1034T>C (p.Leu345Pro)	chr10-89725051-T-C	PTEN p.L345P	Pathogenic
	7	265	D268Gfs*30	PTEN(NM_000314.8):c.800dupA (p.Asp268GlyfsTer30)	chr10-89717770--A	PTEN:p.D268Gfs*30	Pathogenic
	7	265	D268Gfs*31	PTEN(NM_000314.8):c.800dupA (p.Asp268GlyfsTer30)	chr10-89717770--A	PTEN:p.D268Gfs*30	Pathogenic
	7	265	D268Gfs*32	PTEN(NM_000314.8):c.800dupA (p.Asp268GlyfsTer30)	chr10-89717770--A	PTEN:p.D268Gfs*30	Pathogenic
	9	371	D371Efs*45	PTEN(NM_000314.8):c.1113delC (p.Asp371GlufsTer45)	chr10-89725130-C-	PTEN:p.D371Efs*45	Pathogenic
	5	93	H93Q	PTEN(NM_000314.8):c.279T>G (p.His93Gln)	chr10-89692795-T-G	PTEN p.H93Q	Pathogenic
	6	212	N212fs	-	-	-	-
	5	106	106del	-	-	-	-
	6	203	I203fs	-	-	-	-
	5	130	R130P	PTEN(NM_000314.8):c.389G>C (p.Arg130Pro)	chr10-89692905-G-C	PTEN p.R130P	Pathogenic
	5	143	p.G143fs	PTEN(NM_000314.8):c.428_429insA (p.Lys144GlnfsTer36)	chr10-89692945--A	PTEN:p.K144Qfs*36	Pathogenic
	6	178	Y178D	PTEN(NM_000314.8):c.532T>G (p.Tyr178Asp)	chr10-89711914-T-G	PTEN p.Y178D	Likely Pathogenic
	5	134	p.M134fs	-	-	-	-
	8	313	p.K313fs	-	-	-	-
	6	173	R173H	PTEN(NM_000314.8):c.518G>A (p.Arg173His)	chr10-89711900-G-A	PTEN p.R173H	Pathogenic
	5	142	R142W	PTEN(NM_000314.8):c.424C>T (p.Arg142Trp)	chr10-89692940-C-T	PTEN p.R142W	Likely Pathogenic
	5	142	R142W	PTEN(NM_000314.8):c.424C>T (p.Arg142Trp)	chr10-89692940-C-T	PTEN p.R142W	Likely Pathogenic
	5	142	R142W	PTEN(NM_000314.8):c.424C>T (p.Arg142Trp)	chr10-89692940-C-T	PTEN p.R142W	Likely Pathogenic
	5	142	R142W	PTEN(NM_000314.8):c.424C>T (p.Arg142Trp)	chr10-89692940-C-T	PTEN p.R142W	Likely Pathogenic
	8	319	T319STOP	PTEN(NM_000314.8):c.955_958delACTT	chr10-89720799-TACT-	PTEN:p.T319*	Pathogenic
	8	319	T319STOP	PTEN(NM_000314.8):c.955_958delACTT	chr10-89720799-TACT-	PTEN:p.T319*	Pathogenic
	5	131	T131Mfs*3	PTEN(NM_000314.8):c.392delC	chr10-89692908-C-	PTEN:p.T131Mfs*3	Pathogenic
	5	123	H123Y	PTEN(NM_000314.8):c.367C>T (p.His123Tyr)	chr10-89692883-C-T	PTEN p.H123Y	Pathogenic
	5	127	G127STOP	PTEN(NM_000314.8):c.379G>T (p.Gly127Ter)	chr10-89692895-G-T	PTEN p.G127*	Pathogenic
	5	129	G129STOP	PTEN(NM_000314.8):c.385G>T (p.Gly129Ter)	chr10-89692901-G-T	PTEN p.G129*	Pathogenic
	5	96	P96S	PTEN(NM_000314.8):c.286C>T (p.Pro96Ser)	chr10-89692802-C-T	PTEN p.P96S	Pathogenic

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	5	127	G127Dfs*5	PTEN(NM_000314.8):c.380_386delGAAAGGG	chr10-89692896-GAAAGGG	PTEN:p.G127Dfs*5	Pathogenic
	8	341	F341C	PTEN(NM_000314.8):c.1022T>G (p.Phe341Cys)	chr10-89720871-T-G	PTEN p.F341C	Likely Pathogenic
	1	20	G20V	PTEN(NM_000314.8):c.59G>T (p.Gly20Val)	chr10-89624285-G-T	PTEN p.G20V	Likely Pathogenic
	6	173	R173C	PTEN(NM_000314.8):c.517C>T (p.Arg173Cys)	chr10-89711899-C-T	PTEN p.R173C	Pathogenic
	6	173	R173C	PTEN(NM_000314.8):c.517C>T (p.Arg173Cys)	chr10-89711899-C-T	PTEN p.R173C	Pathogenic
	6	173	R173C	PTEN(NM_000314.8):c.517C>T (p.Arg173Cys)	chr10-89711899-C-T	PTEN p.R173C	Pathogenic
	1	1	M1I	PTEN(NM_000314.8):c.3G>T (p.Met1Ile)	chr10-89624229-G-T	PTEN p.M1I	Pathogenic
	5	114	E114STOP	PTEN(NM_000314.8):c.340G>T (p.Glu114Ter)	chr10-89692856-G-T	PTEN p.E114*	Pathogenic
	5	87	Q87STOP	PTEN(NM_000314.8):c.259C>T (p.Gln87Ter)	chr10-89692775-C-T	PTEN p.Q87*	Pathogenic
	5	107	D107V	PTEN(NM_000314.8):c.320A>T (p.Asp107Val)	chr10-89692836-A-T	PTEN p.D107V	Pathogenic
	8	336	Y336STOP	PTEN(NM_000314.8):c.1008C>G (p.Tyr336Ter)	chr10-89720857-C-G	PTEN p.Y336*	Pathogenic
Kuno	8	308	p.R308fs	–	–	–	–
Martignetti	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	8	338	S338fs	–	–	–	–
Matsuura	5	92	D92G	PTEN(NM_000314.8):c.275A>G (p.Asp92Gly)	chr10-89692791-A-G	PTEN:p.D92G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	5	130	R130P	PTEN(NM_000314.8):c.389G>C (p.Arg130Pro)	chr10-89692905-G-C	PTEN p.130P	Pathogenic
	5	157	E157STOP	PTEN(NM_000314.8):c.469G>T (p.Glu157Ter)	chr10-89692985-G-T	PTEN:p.E157*	Pathogenic
	6	173	R173C	PTEN(NM_000314.8):c.517C>T (p.Arg173Cys)	chr10-89711899-C-T	PTEN:p.R173C	Pathogenic
	6	173	R173H	PTEN(NM_000314.8):c.518G>A (p.Arg173His)	chr10-89711900-G-A	PTEN:p.R173H	Pathogenic
	6	190	P190 fs*9	–	–	–	–
	7	267	K267fs*9	PTEN(NM_000314.8):c.800delA	chr10-89717770-A-	PTEN:p.K267Rfs*9	Pathogenic
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	8	284	E284STOP	PTEN(NM_000314.8):c.850G>T (p.Glu284Ter)	chr10-89720699-G-T	PTEN:p.E284*	Pathogenic
BREAST CANCER							
Kechagioglou	1	13	K13E	PTEN(NM_000314.8):c.37A>G (p.Lys13Glu)	chr10-89624263-A-G	PTEN:p.K13E	Likely Pathogenic
	1	21	F21Y	PTEN(NM_000314.8):c.62T>A	chr10-89624288-T-A	PTEN:p.F21Y	Likely Pathogenic
	1	22	D22E	PTEN(NM_000314.8):c.66C>G	chr10-89624292-C-G	PTEN:p.D22E	Likely Pathogenic

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	1	23	L23V	PTEN(NM_001304718.2):c.67C>G	chr10-89717633-C-G	PTEN:p.L23V	Likely Pathogenic
	1	18	Q18E	PTEN(NM_001304718.2):c.51_52insA	chr10-89717618--A	PTEN:p.F18Ifs*28	Pathogenic
	1	20	G20D	PTEN(NM_001304718.2):c.58delG	chr10-89717623-G	PTEN:p.V20Sfs*4	Pathogenic
	1	20	G20G	PTEN(NM_000314.8):c.60delA	chr10-89624286-A-	PTEN:p.F21Sfs*3	Likely Pathogenic
	1	21	F21S	PTEN(NM_001304718.2):c.61delT	chr10-89717627-T-	PTEN:p.C21Afs*3	Pathogenic
	1	23	L23STOP	PTEN(NM_001304718.2):c.68delT	chr10-89717634-T-	PTEN:p.L23Qfs*3	Pathogenic
	5	108	L108L	PTEN(NM_001304718.2):c.324delT	chr10-89720764-T-	PTEN:p.S108Rfs*2	Pathogenic
	5	111	W111C	PTEN(NM_001304718.2):c.332delG	chr10-89720772-G-	PTEN:p.R111Lfs*9	Pathogenic
	5	112	L112L	PTEN(NM_000314.8):c.334C>T	chr10-89692850-C-T	PTEN:p.L112=	Likely Benign
	5	113	S113R	PTEN(NM_000314.8):c.339delT	chr10-89692855-T-	PTEN:p.S113Rfs*21	Pathogenic
	5	114	E114aK	PTEN(NM_000314.8):c.340delG	chr10-89692856-G-	PTEN:p.E114Kfs*20	Pathogenic
	5	113	E113bK	PTEN(NM_000314.8):c.340G>A	chr10-89692856-G-A	PTEN:p.E114K	Likely Pathogenic
	5	114	E114D	PTEN(NM_001304718.2):c.342dupT	chr10-89720783--T	PTEN:p.D115*	Pathogenic
	5	116	D116T	–	–	–	–
	5	120	A120Q	PTEN(NM_000314.8):c.358G>T	chr10-89692874-G-T	PTEN:p.A120S	Pathogenic
	5	137	A137A	PTEN(NM_001304718.2):c.411_412insG	chr10-89720852--G	PTEN:p.R138Afs*8	Pathogenic
	5	140	L140F	PTEN(NM_000314.8):c.420A>C	chr10-89692936-A-C	PTEN:p.L140F	Likely Pathogenic
	5	146	L146STOP	PTEN(NM_000314.8):c.437delT	chr10-89692949-T-	PTEN:p.L146*	Pathogenic
	5	147	K147K	PTEN(NM_000314.8):c.441G>A (p.Lys147=)	chr10-89692957-G-A	PTEN:p.K147=	Likely Benign
	5	147	K147R	PTEN(NM_000314.8):c.440A>G (p.Lys147Arg)	chr10-89692956-A-G	PTEN:p.K147R	Likely Pathogenic
	5	148	A148D	PTEN(NM_000314.8):c.443_444delCAinsAT (p.Ala148Asp)	hr10-89692959-CA-AT	PTEN:p.A148D	Likely Pathogenic
	5	152	L152V	PTEN(NM_000314.8):c.454C>G (p.Leu152Val)	chr10-89692970-C-G	PTEN:p.L152V	Likely Pathogenic
	5	152	L152L	PTEN(NM_000314.8):c.456A>T (p.Leu152=)	chr10-89692972-A-T	PTEN:p.L152=	Likely Benign
	5	153	D153A	PTEN(NM_000314.8):c.458A>C (p.Asp153Ala)	chr10-89692974-A-C	PTEN:p.D153A	Likely Pathogenic
	5	153	D153N	PTEN(NM_000314.8):c.457G>A (p.Asp153Asn)	chr10-89692973	PTEN:p.D153N	Likely Pathogenic
	5	153	D153E	PTEN(NM_000314.8):c.459T>G (p.Asp153Glu)	chr10-89692975-T-G	PTEN:p.D153E	Likely Pathogenic
	5	154	F154S	PTEN(NM_000314.8):c.461T>C (p.Phe154Ser)	chr10-89692977-T-C	PTEN:p.F154S	Likely Pathogenic
	5	154	F154F	PTEN(NM_000314.8):c.462C>T (p.Phe154=)	chr10-89692978-C-T	PTEN:p.F154=	Likely Benign
	5	155	Y155L	PTEN(NM_000314.8):c.464_465delATinsTG (p.Tyr155Leu)	chr10-89692980-AT-TG (PTEN:p.Y155L)	PTEN:p.Y155L	Likely Pathogenic

Author	Exon	Codon		HGVS		Protien	ClinVar verdict
	5	155	Y155STOP	PTEN(NM_000314.8):c.465T>G (p.Tyr155Ter)	chr10-89692981-T-G	PTEN:p.Y155*	Pathogenic
	5	156	G156G	PTEN(NM_000314.8):c.468G>T (p.Gly156=)	chr10-89692984-G-T	PTEN:p.G156=	Likely Benign
	5	157	E157K	PTEN(NM_000314.8):c.469G>A (p.Glu157Lys)	chr10-89692985-G-A	PTEN:p.E157K	Likely Pathogenic
	5	157	E157K	PTEN(NM_000314.8):c.469G>A (p.Glu157Lys)	chr10-89692985-G-A	PTEN:p.E157K	Likely Pathogenic
	5	157	E157E	PTEN(NM_000314.8):c.471A>G (p.Glu157=)	chr10-89692987-A-G	PTEN:p.E157=	Likely Benign
	5	159	R159R	PTEN(NM_000314.8):c.477G>A (p.Arg159=)	chr10-89692993-G-A	PTEN:p.R159=	Likely Benign
	5	159	R159K	PTEN(NM_000314.8):c.476G>A (p.Arg159Lys)	chr10-89692992-G-A	PTEN:p.R159K	Likely Pathogenic
	5	159	R159R	PTEN(NM_000314.8):c.477G>A (p.Arg159=)	chr10-89692993-G-A	PTEN:p.R159=	Likely Benign
	5	161	R161R	PTEN(NM_000314.8):c.483A>G (p.Arg161=)	chr10-89692999-A-G	PTEN:p.R161=	Uncertain Significance
	5	162	D162T	PTEN(NM_000314.8):c.484_485delGAinsAC (p.Asp162Thr)	chr10-89693000-GA-AC	PTEN:p.D162T	Likely Pathogenic
	5	162	–	–	–	–	–
	7	212	N212R	PTEN(NM_000314.8):c.635_636delATinsGG (p.Asn212Arg)	chr10-89717610-AT-GG	PTEN:p.N212R	Likely Pathogenic
	7	257	F257S	PTEN(NM_000314.8):c.770T>C (p.Phe257Ser)	chr10-89717745-T-C	PTEN:p.F257S	Likely Pathogenic
	7	258	F258S	PTEN(NM_000314.8):c.773T>C (p.Phe258Ser)	chr10-89717748-T-C	PTEN:p.F258S	Likely Pathogenic
	7	260	K260E	PTEN(NM_000314.8):c.778A>G (p.Lys260Glu)	chr10-89717753-A-G	PTEN:p.K260E	Likely Pathogenic
	7	263	K263R	PTEN(NM_000314.8):c.788A>G (p.Lys263Arg)	chr10-89717763-A-G	PTEN:p.K263R	Likely Pathogenic
	7	264	M264I	PTEN(NM_000314.8):c.792G>T (p.Met264Ile)	chr10-89717767-G-T	PTEN:p.M264I	Likely Pathogenic
	9	378	R378S	PTEN(NM_000314.8):c.1134A>T (p.Arg378Ser)	chr10-89725151-A-T	PTEN:p.R378S	Uncertain Significance
	9	379	Y379F	PTEN(NM_000314.8):c.1136A>T (p.Tyr379Phe)	chr10-89725153-A-T	PTEN:p.Y379F	Uncertain Significance
	9	400	I400I	PTEN(NM_000314.8):c.1200T>C (p.Ile400=)	chr10-89725217-T-C	PTEN:p.I400=	Likely Benign
	9	400	I400I	PTEN(NM_000314.8):c.1200T>C (p.Ile400=)	chr10-89725217-T-C	PTEN:p.I400=	Likely Benign
	9	401	T401R	PTEN(NM_000314.8):c.1202C>G (p.Thr401Arg)	chr10-89725219-C-G	PTEN:p.T401R	Uncertain Significance
	9	402	K402K	PTEN(NM_000314.8):c.1206A>G (p.Lys402=)	chr10-89725223-A-G	PTEN:p.K402=	Likely Benign
Li	1	16	Y16Lfs*28	–	–	–	–
	1	17	Q17STOP	PTEN(NM_000314.8):c.49C>T (p.Gln17Ter)	chr10-89624275-C-T	PTEN:p.Q17*	Pathogenic
	1	27	Y27N	PTEN(NM_000314.8):c.79T>A (p.Tyr27Asn)	chr10-89624305-T-A	PTEN:p.Y27N	Pathogenic
	3	62	K62STOP	PTEN(NM_000314.8):c.184A>T (p.Lys62Ter)	chr10-89685289-A-T	PTEN:p.K62*	Pathogenic

Author	Exon	Codon		HGVS		Protien	ClinVar verdict
	5	136	C136R	PTEN(NM_000314.8):c.406T>C (p.Cys136Arg)	chr10-89692922-T-C	PTEN:p.C136R	Pathogenic
	6	201	E201STOP	PTEN(NM_000314.8):c.601G>T (p.Glu201Ter)	chr10-89711983-G-T	PTEN:p.E201*	Pathogenic
	6	211	C211STOP	PTEN(NM_000314.8):c.633C>A (p.Cys211Ter)	chr10-89712015-C-A	PTEN:p.C211*	Pathogenic
	intron 6	splice junction loss	c.635-12_ 636delTTAACCATGCAGAT	PTEN(NM_000314.8):c.635-12_636del	chr10-89717598-TTAACCATGCAGAT (14bp)	splice junction loss	Pathogenic
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
	8	298	Q298STOP	PTEN(NM_000314.8):c.892C>T (p.Gln298Ter)	chr10-89720741-C-T	PTEN:p.Q298*	Pathogenic
	8	319	T319STOP	PTEN(NM_000314.8):c.955_958delACTT (p.Thr319Ter)	chr10-89720799-TACT	PTEN:p.T319*	Pathogenic
	8	335	R335STOP	PTEN(NM_000314.8):c.1003C>T (p.Arg335Ter)	chr10-89720852-C-T	PTEN p.R335*	Pathogenic
	8	336	Y336STOP	PTEN(NM_000314.8):c.1008C>G (p.Tyr336Ter)	chr10-89720857-C-G	PTEN p.Y336*	Pathogenic
	8	340	N340Ifs*4	PTEN(NM_000314.8):c.1019delA (p.Asn340IlefsTer4)	chr10-89720866-A	PTEN:p.N340Ifs*4	Pathogenic
Mitus	3	57	L57Ffs*6	PTEN(NM_000314.8):c.170dupT (p.Leu57PhefsTer6)	chr10-89685271--T	PTEN:p.L57Ffs*6	Pathogenic
				PROSTATE CANCER			
Kmak	8	323	N323Mfs*21	PTEN(NM_000314.8):c.968delA (p.Asn323MetfsTer21)	chr10-89720812-A	PTEN:p.N323Mfs*21	Pathogenic
Haffner	7	Lack of data	–	–	–	–	–
				LUNG CANCER			
Uruga	8	323	N323Mfs*21	–	–	–	–
	8	323	N323Mfs*21	–	–	–	–
	8	323	N323Mfs*21	–	–	–	–
	8	323	N323Mfs*21	–	–	–	–
	8	323	N323Mfs*21	–	–	–	–
	8	323	N323Mfs*21	–	–	–	–
Wang	7	237	K237Cfs*17	0l’	–	–	–
Parikh	7	268	D268fs*30	–	–	–	–
Hayashi	5	123	H123D	PTEN(NM_000314.8):c.367C>G (p.His123Asp)	chr10-89692883-C-G	p.H123D	Pathogenic
				MEDIASTINAL GERM CELL TUMOUR			
Akizuki	5	85	p.V85Gfs*14	–	–	–	–

Author	Exon	Codon	HGVS			Protien	ClinVar verdict
OVARIAN CANCER							
Matsubayashi	intron		c.1026+1G>T	–	–	–	–
Li	6	206	F206Qfs*31	–	–	–	–
	5	101	I101Nfs*12	–	–	–	–
	5	136	C136Vfs*11	–	–	–	–
Yauy	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
McConechy	8	341	F341V	PTEN(NM_000314.8):c.1021T>G (p.Phe341Val)	chr10-89720870-T-G	PTEN p.F341V	Likely Pathogenic
	5	139	L139V	PTEN(NM_000314.8):c.415T>G (p.Leu139Val)	chr10-89692931-T-G	PTEN p.L139V	Likely Pathogenic
	5	130	R130STOP	PTEN(NM_000314.8):c.388C>T (p.Arg130Ter)	chr10-89692904-C-T	PTEN p.R130*	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	5	130	R130G	PTEN(NM_000314.8):c.388C>G (p.Arg130Gly)	chr10-89692904-C-G	PTEN p.R130G	Pathogenic
	6	173	R173C	PTEN(NM_000314.8):c.517C>T (p.Arg173Cys)	chr10-89711899-C-T	PTEN p.R173C	Pathogenic
	8	326	D326G	PTEN(NM_001304717.5):c.977A>G (p.Asp326Gly)	chr10-89692974-A-G	PTEN p.D326G	Likely Pathogenic
	8	299	E299STOP	PTEN(NM_000314.8):c.895G>T (p.Glu299Ter)	chr10-89720744-G-T	PTEN p.E299*	Pathogenic
	8	335	R335STOP	PTEN(NM_000314.8):c.1003C>T (p.Arg335Ter)	chr10-89720852-C-T	PTEN p.R335*	Pathogenic
Elvin	6	171	Q171STOP	PTEN(NM_000314.8):c.511C>T (p.Gln171Ter)	chr10-89711893-C-T	PTEN:p.Q171*	Pathogenic
	7	233	R233STOP	PTEN(NM_000314.8):c.697C>T (p.Arg233Ter)	chr10-89717672-C-T	PTEN p.R233*	Pathogenic
GASTRIC CANCER							
Werner	2	36	G36E	PTEN(NM_000314.8):c.107G>A (p.Gly36Glu)	chr10-89653809-G-A	PTEN p.G36E	Pathogenic
	9	397	H397Y	PTEN(NM_000314.8):c.1189C>T (p.His397Tyr)	chr10-89725206-C-T	PTEN p.H397Y	Uncertain Significance
	intron	-	rs1903858	PTEN(NM_001304718.2):c.-626-96A>G	chr10-89653686-A-G	SNV	Benign
	intron	-	rs1903859	PTEN(NM_001304718.2):c.-626-96A>G	chr10-89653686-A-G	SNV	Benign