

## Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

## **eMethods. Further Methods**

### **Eligibility criteria**

Additional inclusion criteria included disease progression during or after anti-estrogen therapy or relapse after adjuvant anti-estrogen therapy; at least one measurable or non-measurable lesion per Response Evaluation Criteria In Solid Tumors (RECIST) v1.0; and an Eastern Cooperative Oncology Group performance status  $\leq 2$ . Exclusion criteria included clinical manifestations of diabetes mellitus (fasting glucose  $\geq 140$  mg/dL [7.8 mmol/L]); history of gestational or documented steroid-induced diabetes mellitus; brain metastasis, unless treated and asymptomatic without corticosteroid therapy; prior treatment with a PI3K, AKT, or mTOR inhibitor without clinical benefit; impaired cardiac function, clinically significant cardiac disease, or concurrent medication with known risk of QT prolongation or torsades de pointes.

### **Alpelisib administration**

Patients were instructed to take their daily dose of alpelisib at approximately the same time each morning. For days when blood collection was scheduled at the clinic, patients took their daily dose at the clinic.

Patients took alpelisib one hour after a light breakfast (e.g. consisting of juice, toast, and jam) and continued fasting for 1 hour after each dose. If the patient forgot to take their daily dose of alpelisib by 12 noon, then the dose was withheld that day. If, for any reason, breakfast was missed, then the daily dose of alpelisib was taken with a glass of water at the scheduled time.

Patients undergoing a dose reduction initiated treatment at the preceding dose level in the dose escalation part of the study. In the dose expansion part, dose reductions could be by 25% or to the next lower dose level, according to investigator judgement. Only two dose reductions per patient were permitted. For example, patients could dose-reduce alpelisib from 400mg to 300mg to 200mg, or patients starting at 300mg or 350mg could dose-reduce to 200mg based on investigator judgement.

A maximum of two alpelisib dose reductions were permitted, after which the patient was discontinued if the treatment was still not tolerated. In addition, a patient had to permanently discontinue treatment if the same toxicity recurred at the same or greater severity after treatment is resumed at a lower dose. For each patient, once a dose level reduction had occurred, the dose level could not be re-escalated during subsequent treatment cycles except for the second occurrence of grade 1 or grade 2 hyperglycemia.

### **Routine laboratory assessments**

Routine laboratory assessments were conducted at baseline; weekly until Cycle 2, Day 28; and at 2-week intervals thereafter. A reduced assessment schedule was used for patients who completed 6 cycles of study treatment, in which Day 15 visits (vital signs, hematology, biochemistry, and fasting plasma glucose) were no longer required. However, these visits may have continued at the discretion of the Investigator. Other safety assessments, included glucose and cardiovascular monitoring. AEs were graded using Common Terminology Criteria for Adverse Events (CTCAE) v4.0. Tumor assessments were conducted using CT or MRI per RECIST v1.0 at baseline, end of Cycle 2, then every 8 weeks.

### **Pharmacokinetic and pharmacodynamic profiling**

Blood samples for pharmacokinetics and pharmacodynamics assessments were collected pre- and post-dose. For alpelisib QD, blood samples for full PK profiling were collected during Cycle 1 on Days 1 and 8, and during Cycle 2 on Day 1 at pre-dose and at 0.5, 1, 1.5, 2, 3, 4, 6, 8, and 24 h post-dose. In subsequent cycles, samples were collected on Day 1 at pre-dose.

Fasting serum insulin, fasting serum C-peptide and fasting plasma glucose for insulin and glucose safety monitoring were assessed pre-dose prior to the light breakfast at the following time-points: screening/baseline; pre-dose on Days 1, 8 and 15 of Cycle 1; pre-dose on Days 1 and 15 of Cycle 2; pre-dose on Days 1 and 15 of each cycle from Cycle 3 onwards; and of study treatment. Patients must have fasted overnight for at least 8 h.

Plasma concentrations of alpelisib were determined using a validated bioanalytical method with a lower limit of quantification of 1 ng/mL.

### **Next-generation sequencing**

Tumor DNA was extracted from fresh, frozen or formalin-fixed, paraffin-embedded blocks or sections of tumor tissue. Comprehensive cancer genomic profiling was performed using the FoundationOne Assay (Foundation Medicine, Inc., Cambridge, MA, USA). The assay laboratory procedures (preparation of tumor DNA, library construction, and hybrid capture) and computational methods involved in subsequent data analysis have been described previously: Frampton *et al.* Development and validation of a clinical cancer genomic profiling test based on massively parallel DNA sequencing. *Nature Biotechnology* 2013;31:1023–31.

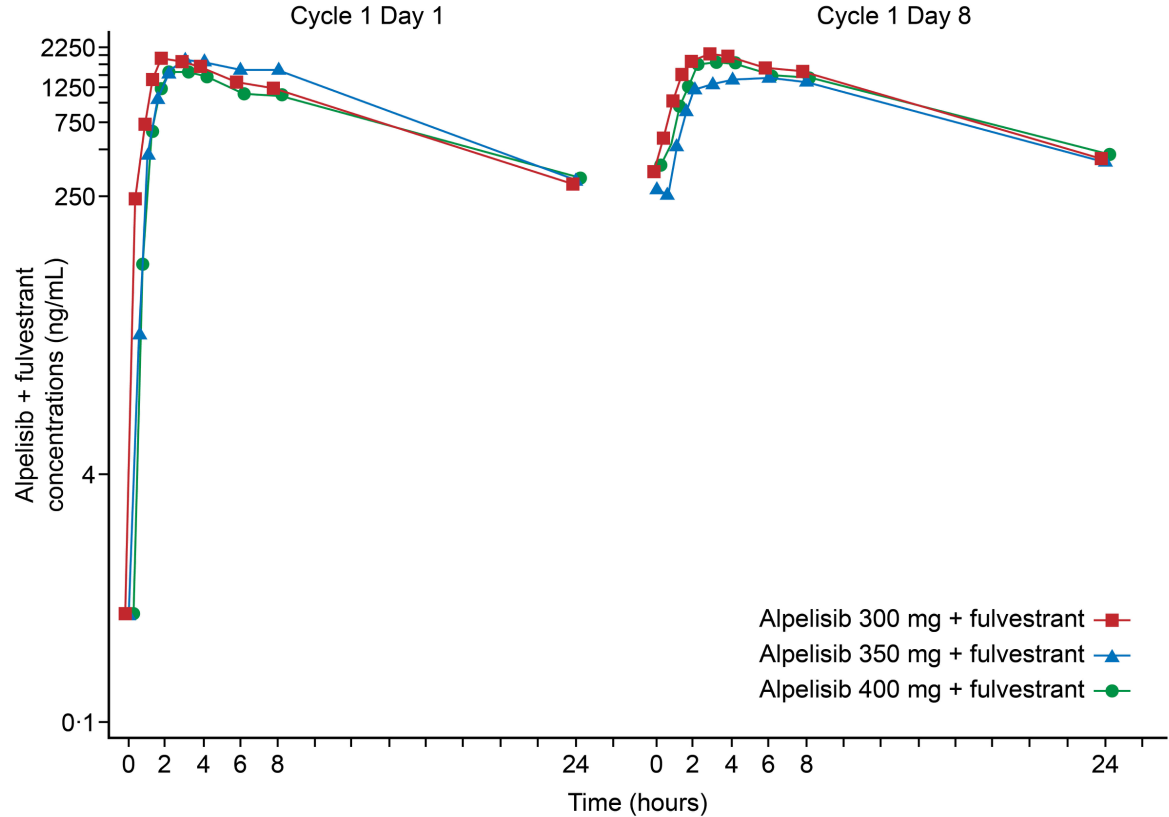
### **Statistical analysis**

Dose-determining set comprised all patients in the safety set who experienced a DLT in Cycle 1 and those who received alpelisib for  $\geq 21$  days, were observed for  $\geq 28$  days and underwent the required safety evaluations for Cycle 1). Patients were eligible for the dose-determining set if, in Cycle 1, they met the minimum treatment and safety evaluation requirements: (1) were treated with the planned dose of alpelisib for  $\geq 21$  days (i.e. received 21 of 28 doses); (2) received 75% of the planned dose of fulvestrant (i.e. received 500 mg on Day 1 and at least 250 mg on Day 15); (3) were observed for  $\geq 28$  days following the Cycle 1 Day 1 dose; and (4) completed all required safety evaluations.

Cohorts of at least one to three patients evaluable for MTD determination per dose level were enrolled in the dose-escalation arm, including at least six patients at the MTD. Before the MTD could be declared, at least 12 patients had to be treated with the combination.

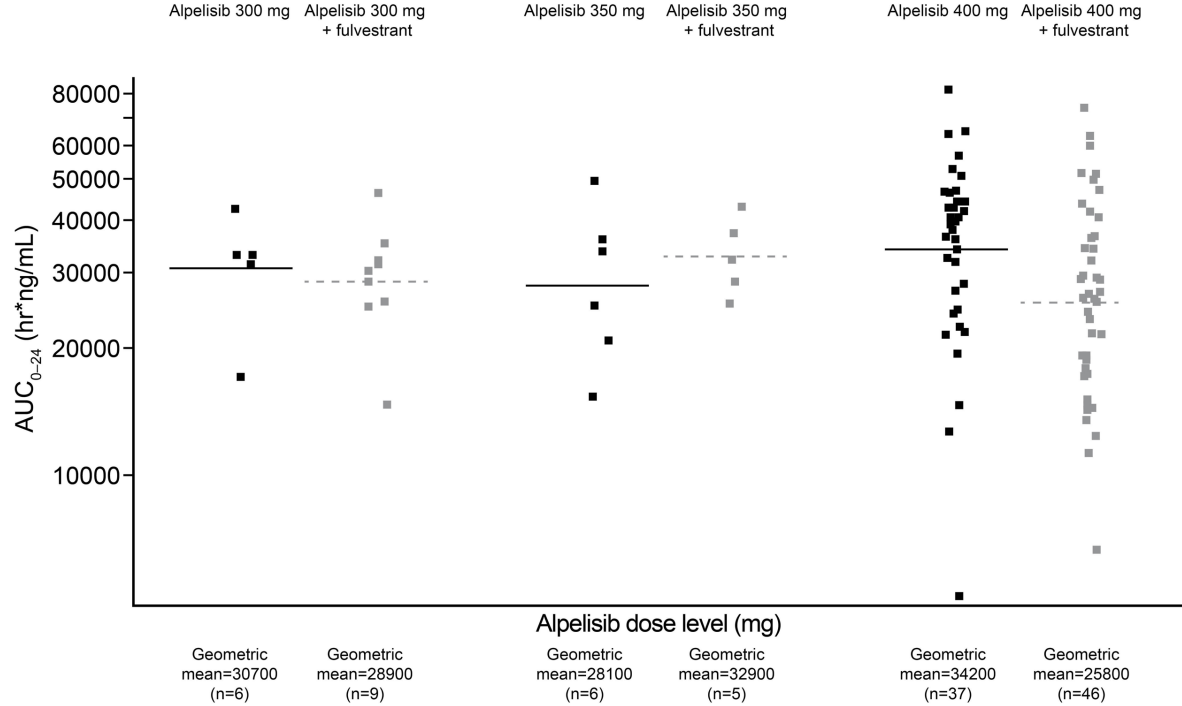
Pharmacokinetic parameters ( $AUC_{0-24}$ ,  $C_{max}$ ,  $t_{max}$  and  $t_{1/2}$ ) for each dose cohort, and at each scheduled timepoint, were analyzed by descriptive statistics, including the median (range). Strip plots of the  $AUC_{0-24}$  and  $C_{max}$  at C1D8 by treatment group were represented to compare the distribution of single agent vs combination administration data.

**eFigure 1. Concentration–Time Profiles of Alpelisib 300–400 mg QD Plus Fulvestrant During Cycle 1**



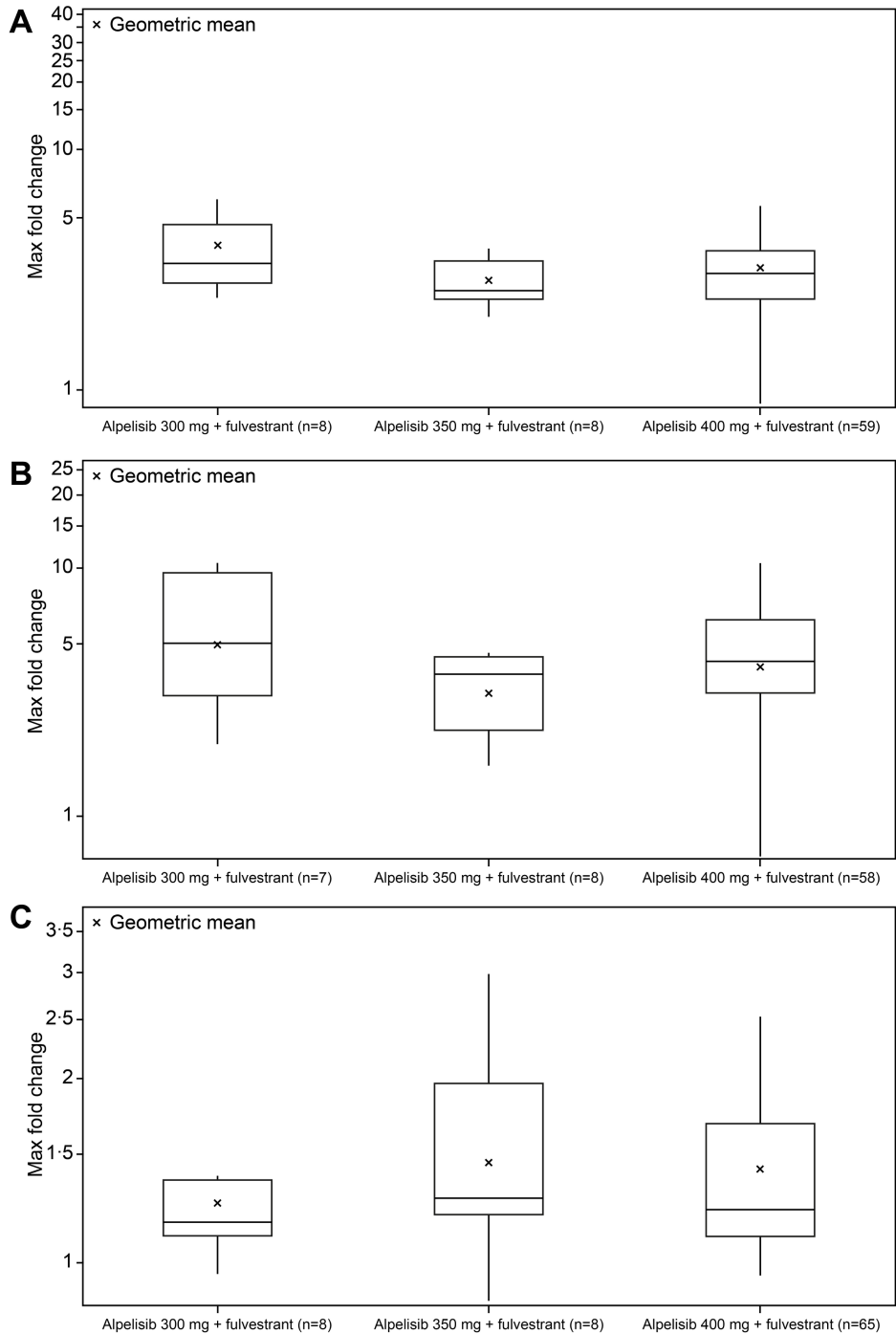
QD, once daily.

**eFigure 2. Strip Plots of Alpelisib Exposure (300–400 mg QD) At Steady State (Cycle 1, Day 8) As Single Agent And In Combination With Fulvestrant**

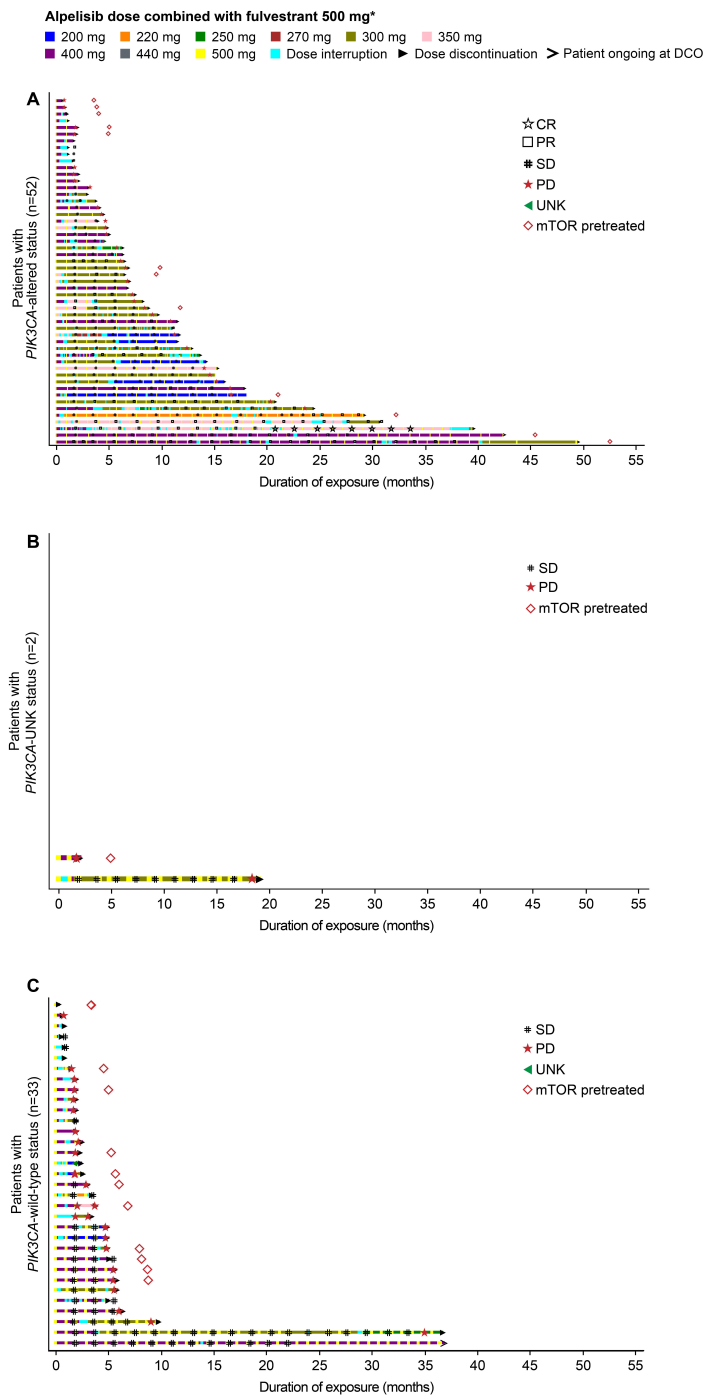


AUC, area under the curve; QD, once daily.

**eFigure 3. Maximum Fold Change of (A) Maximum C-Peptide (nmol/L), (B) Maximum Insulin (pmol/L), and (C) Maximum Glucose (mmol/L) From Baseline During the First 28 Days by Treatment**



**eFigure 4. Swimmers Plots of Duration of Exposure and Overall Response (per RECIST v1.0) in Patients With (A) *PIK3CA*-Altered, (B) *PIK3CA*-UNK, or (C) *PIK3CA*-Wild-Type ER+ LA/MBC**

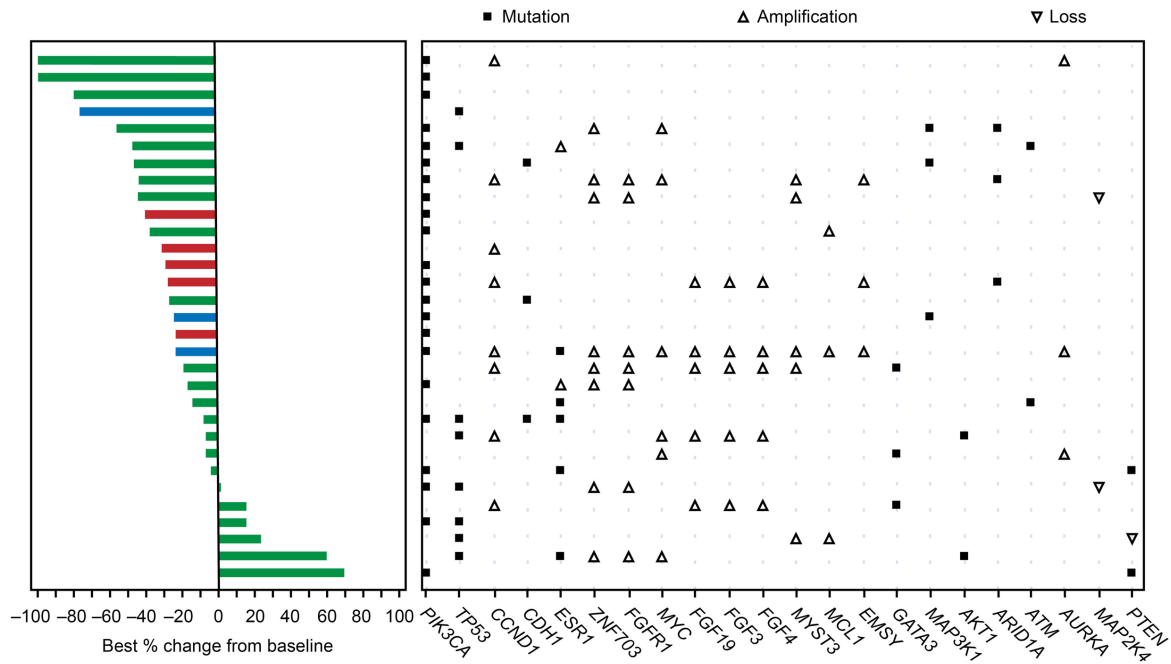


CR, complete response; DCO, data cut-off; ER+, estrogen receptor-positive; HER2+, human epidermal growth factor receptor 2-positive; LA/MBC, locally advanced/metastatic breast cancer; mTOR, mammalian target of rapamycin; PD, progressive disease; PR, partial response; RECIST, Response Evaluation Criteria In Solid Tumors; SD, stable disease; UNK, unknown.

\* Patient with HER2+, ER+ LA/MBC.

Data cut-off: March 22, 2017

**eFigure 5. Most Frequent Somatic Genetic Alterations Observed in Tumor Samples With Known/Likely Functional Significance. NGS analysis and best percentage change from baseline in sum of longest diameters as per investigator by treatment (safety set)**



**Treatment group**

- Alpelisib 300 mg + fulvestrant ■
- Alpelisib 350 mg + fulvestrant ■
- Alpelisib 400 mg + fulvestrant ■

NGS, next-generation sequencing.  
 Mutations were assessed centrally by NGS from fresh or archival tumor samples.  
 Data cut-off: 22 March 2017.



**eTable 1. Recruitment Sites**

<b>Recruitment site (PI)</b>	<b>Institutional review board/Independent ethics committee</b>	<b>Patients recruited</b>	<b>Financial compensation*</b>
University of Texas, MD Anderson Cancer Center (Filip Janku)	The University of Texas Cancer Center Institutional Review Board, Unit 1437, Houston TX 77030 USA	18	Yes
Massachusetts General Hospital (Dejan Juric)	Office for Human Research Studies, Dana Farber Cancer Institute, Boston MA 02215 USA	17	Yes
University of California, San Francisco Comprehensive Cancer Center (Hope Rugo)	The Committee on Human Research, University of California, San Francisco CA 94118 USA	12	Yes
Vall d'Hebron Institute of Oncology (Jordi Rodon)	CEIC Comite de Etica de Investigacion Clinica, Hospital Universitari de Bellvitge, L'Hospitalet De Llobregat (Barcelona) 08907 Spain	10	Yes
Sarah Cannon Research Institute/Tennessee Oncology (Howard Burris)	Integreview Ethical Review Board, Austin TX 78704 USA	9	Yes
Vanderbilt-Ingram Cancer Center (Ingrid Mayer)	Vanderbilt University IRB, Nashville TN 37232-4315 USA	6	Yes
West German Cancer Center (Martin Schuler)	Ethik Kommission, Medizinische Fakultät der Universität, Duisburg Essen, Essen 45147 Germany	6	Yes

Comprehensive Cancer Center Mainfranken (Ruth Seggewiss-Bernhardt)	Ethik-Kommission bei der Medizinischen Fakultät der Universität Würzburg, Institut für Pharmakologie und Toxikologie, Würzburg 97078 Germany	4	Yes
Catalan Institute of Oncology-IDIBELL (Marta Gil-Martin)	CEIC Comite de Etica de Investigacion Clinica, Hospital Universitari de Bellvitge, L'Hospitalet De Llobregat (Barcelona) 08907 Spain	3	Yes
Churchill Hospital Cancer Centre (Mark Middleton)	National Research Ethics Service, Oxfordshire REC C, Jarrow NE32 3DT United Kingdom	2	Yes

\*Reimbursement was provided for travel and accommodation at each site..

**eTable 2. Summary of Pharmacokinetic Parameters for Alpelisib by Cohort (300–400-mg QD) as a Single Agent<sup>15</sup> and in Combination With Fulvestrant**

	Alpelisib Dose and Study Cohort					
	300-mg QD		350-mg QD		400-mg QD	
Median (Range) [n]	Alpelisib (n=8)	Alpelisib + Fulvestrant (n=9)	Alpelisib (n=6)	Alpelisib + Fulvestrant (n=8)	Alpelisib (n=65)	Alpelisib + Fulvestrant (n=70)
<b>Cycle 1, Day 1</b>						
T <sub>max</sub> , h	3.0 (1.0–7.0) [8]	2.0 (0.6–7.2) [8]	2.3 (0.5–4.0) [6]	2.6 (0.9–6.1) [8]	2.0 (1.0–7.0) [57]	2.1 (1.0–8.1) [68]
C <sub>max</sub> , ng/mL	2380 (735–3580) [8]	2710 (1340–3430) [8]	2650 (1350–4280) [6]	2350 (1760–4230) [8]	2760 (967–6670) [57]	2250 (371–5930) [68]
T <sub>1/2</sub> , h	7.0 (6.1–11.9) [6]	8.9 (4.9–13.3) [7]	7.0 (4.7–13.5) [6]	7.1 (6.0–9.2) [6]	7.6 (4.6–27.1) [50]	8.4 (4.2–30.5) [55]
AUC <sub>0–24</sub> , h•ng/mL	25500 (9570–37700) [6]	25800 (14800–32200) [7]	24400 (13000–38300) [6]	24800 (15000–45500) [6]	29000 (9930–68100) [51]	22900 (7440–64900) [60]
<b>Cycle 1, Day 8</b>						
T <sub>max</sub> , h	4.0 (1.0–6.0) [6]	2.1 (1.0–4.2) [9]	1.8 (1.0–3.0) [6]	3.0 (1.5–6.0) [7]	3.0 (1.1–8.2) [48]	2.2 (1.0–8.0) [59]
C <sub>max</sub> , ng/mL	2970 (2060–3770) [6]	2330 (1770–3980) [9]	3200 (1800–5440) [6]	2690 (346–4220) [7]	3560 (501–7930) [48]	2300 (770–7760) [59]
T <sub>1/2</sub> , h	7.5 (5.6–9.8) [5]	8.4 (6.5–13.4) [9]	7.2 (6.0–8.3) [6]	8.3 (7.2–14.5) [5]	7.5 (4.5–14.3) [33]	9.3 (5.5–22.4) [39]
AUC <sub>0–24</sub> , h•ng/mL	33200 (17100–42600) [6]	30500 (14700–46500) [9]	29500 (15400–49700) [6]	32400 (25700–43200) [5]	39800 (5210–81700) [37]	26200 (6710–73800) [46]

AUC, area under the curve; C<sub>max</sub>, peak serum concentration; T<sub>1/2</sub>, half-life; T<sub>max</sub>, time to C<sub>max</sub>; QD, once daily.

**eTable 3. Summary of Best Overall Response to Alpelisib (300–400-mg QD) Plus Fulvestrant per RECIST v1.0 in Patients with ER+, HER2– Advanced Breast Cancer with *PIK3CA*-Altered or *PIK3CA*-Wild-Type Tumors**

	<i>PIK3CA</i> Altered n=49				<i>PIK3CA</i> Wild-Type n=32
Best Overall Response	300-mg QD (n=9)	350-mg QD (n=8)	400-mg QD (n=32)	All patients (n=49)	400-mg QD (n=32)
CR	0	0	0	0	0
PR	3 (33%)	3 (38%)	8 (25%)	14 (29%)	0
SD	6 (67%)	5 (63%)	14 (44%)	25 (51%)	15 (47%)
PD	0	0	6 (19%)	6 (12%)	10 (31%)
Unknown	0	0	4 (13%)	4 (8%)	7 (22%)
<b>ORR; CR + PR [95% CI]</b>	3 (33%) [8–70]	3 (38%) [9–76]	8 (25%) [12–44]	14 (29%) [17–43]	0 [0–11]
<b>DCR; CR + PR + SD [95% CI]</b>	9 (100%) [66–100]	8 (100%) [63–100]	22 (69%) [50–84]	39 (80%) [66–90]	15 (47%) [29–65]
<b>CBR; CR + PR + SD ≥24 weeks [95% CI]</b>	4 (44%) [14–79]	7 (88%) [47–100]	11 (34%) [19–53]	22 (45%) [31–60]	4 (13%) [4–29]
<b>mPFS, months [95% CI]</b>	–	–	4.7 [4.6–9]	9.1 [6.6–14.6]	5.4 [1.9–5.6]

CBR, clinical benefit rate; CI, confidence interval; CR, complete response; DCR, disease control rate; ER+, estrogen receptor-positive; HER2–, human epidermal growth factor receptor 2-negative; mPFS, median progression-free survival; ORR, overall response rate; PD, progressive disease; PR, partial response; RECIST, Response Evaluation Criteria In Solid Tumors; SD, stable disease; QD, once daily. Two patients with unknown *PIK3CA* alteration status are not included. Data cut-off: March 22, 2017

**eTable 4. Duration of Exposure to Alpelisib 300–400 mg QD Plus Fulvestrant in Patients with ER+ ABC by *PIK3CA* Status and mTOR Pretreatment**

	<i>PIK3CA</i> Altered n=52		<i>PIK3CA</i> Wild-Type n=33	
	mTOR pretreated (n=13)	mTOR naïve (n=39)	mTOR pretreated (n=11)	mTOR naïve (n=22)
<b>Exposure categories (months), n (%)</b>				
<6	6 (46)	16 (41)	11 (100)	18 (82)
<6–<12	3 (23)	12 (31)	0	2 (9)
12–<24	1 (8)	8 (21)	0	0
≥24	3 (23)	3 (8)	0	2 (9)
<b>Duration of exposure (months)</b>				
Median (range)	6.5 (0.5–49.5)	6.7 (1.0–39.6)	3.0 (0.3–5.7)	2.4 (0.6–36.8)

ABC, advanced breast cancer; ER+, estrogen receptor-positive; mTOR, mammalian target of rapamycin; QD, once daily.  
Data cut-off: March 22, 2017

**eTable 5. NGS Data by Patients Who Received Alpelisib in Combination With Fulvestrant: *PIK3CA* Mutation**

Subject Dummy ID	Sample Dummy ID	Primary Site of Cancer Group	Treatment Group Description	Best % Change From Baseline (Evaluated)	BOR	PFS (Days)	<i>PIK3CA</i> Mutation Status	Functional Significance
1017	2018	Breast	400 mg + Fulv.	NA	SD	404	Mutant	Known
1018	2019	Breast	400 mg + Fulv.	15.6	PD	51	Wild type	UNK
1019	2020	Breast	400 mg + Fulv.	23.5	PD	22	Wild type	UNK
1020	2021	Breast	400 mg + Fulv.	-7.5	SD	142	Wild type	UNK
1021	2022	Breast	300 mg + Fulv.	-29.2	SD	464	Mutant	Known
1022	2023	Breast	350 mg + Fulv.	-25.3	SD	342	Mutant	Known
1023	2024	Breast	400 mg + Fulv.	NA	UNK	26	Wild type	UNK
1030	2031	Breast	400 mg + Fulv.	-4.1	UNK	28	Mutant	Known
1032	2033	Breast	400 mg + Fulv.	69.2	PD	54	Mutant	Known
1033	2034	Breast	400 mg + Fulv.	-46.7	PR	717	Mutant	Known
1057	2059	Breast	300 mg + Fulv.	-40.0	PR	187	Mutant	Known
1058	2060	Breast	400 mg + Fulv.	-100.0	PR	303	Mutant	Known
1059	2061	Breast	400 mg + Fulv.	-79.7	PR	1150	Mutant	Known
1060	2062	Breast	400 mg + Fulv.	NA	SD	162	Mutant	Known
1061	2063	Breast	400 mg + Fulv.	1.3	SD	50	Mutant	Known
1062	2064	Breast	400 mg + Fulv.	-17.2	SD	50	Mutant	Known
1063	2065	Breast	400 mg + Fulv.	-37.8	PR	874	Mutant	Known
1064	2066	Breast	400 mg + Fulv.	NA	SD	107	Wild type	UNK
1065	2067	Breast	400 mg + Fulv.	-47.7	SD	52	Mutant	Known
1066	2068	Breast	350 mg + Fulv.	-23.9	SD	204	Mutant	Known
1066	2069	Breast	350 mg + Fulv.	-23.9	SD	204	Mutant	UNK
1067	2070	Breast	300 mg + Fulv.	-24.0	SD	443	Mutant	Known
1068	2071	Breast	400 mg + Fulv.	-55.8	PR	330	Mutant	Known
1077	2080	Breast	400 mg + Fulv.	NA	UNK	1	Mutant	Known
1078	2081	Breast	400 mg + Fulv.	-8.6	SD	70	Mutant	Known

1079	2082	Breast	400 mg + Fulv.	-19.9	SD	165	Wild type	UNK
1080	2083	Breast	400 mg + Fulv.	60.3	PD	53	Wild type	UNK
1081	2084	Breast	350 mg + Fulv.	-76.5	PR	940	Wild type	Known
1082	2085	Breast	300 mg + Fulv.	-28.6	SD	131	Mutant	Known
1083	2086	Breast	400 mg + Fulv.	-14.3	SD	179	Wild type	UNK
1094	2097	Breast	300 mg + Fulv.	-30.8	PR	219	Wild type	Known
1095	2098	Breast	400 mg + Fulv.	-100.0	CR	1023	Mutant	Known
1096	2099	Breast	400 mg + Fulv.	NA	SD	112	Mutant	Known
1097	2100	Breast	400 mg + Fulv.	-43.8	PR	376	Mutant	Known
1098	2101	Breast	400 mg + Fulv.	-43.8	PD	55	Mutant	Known
1101	2104	Breast	400 mg + Fulv.	NA	UNK	1	Mutant	Known
1102	2105	Breast	400 mg + Fulv.	-7.5	SD	140	Wild type	UNK
1103	2106	Breast	400 mg + Fulv.	NA	SD	168	Wild type	UNK
1104	2107	Breast	400 mg + Fulv.	NA	PD	54	Wild type	UNK
1106	2109	Breast	400 mg + Fulv.	-27.6	SD	285	Mutant	Known
1107	2110	Breast	400 mg + Fulv.	15.9	SD	87	Mutant	Known

BOR, best overall response; CR, complete response; Fulv, fulvestrant; ID, identification; NA, not applicable; NGS, next-generation sequencing; PD, progressive disease; PFS, progression-free survival; PR, partial response; SD, stable disease; UNK, unknown.

**eTable 6. NGS Data Collected at Screening (by Patients who Received Alpelisib Plus Fulvestrant) – Mutations of Known Significance**

Subject Dummy ID	Sample Dummy ID	Tumor Purity, %	Analyte Name	Protein Effect	Allele Frequency, %
1017	2018	80	CDH1	(CN DEL)	NA
1017	2018	80	KRAS	G12D (MUT)	28
1017	2018	80	<i>PIK3CA</i>	C420R (MUT)	30
1018	2019	40	CCND1	(CN AMP)	NA
1018	2019	40	Fibroblast growth factor 19	(CN AMP)	NA
1018	2019	40	Fibroblast growth factor 3	(CN AMP)	NA
1018	2019	40	FGF4	(CN AMP)	NA
1018	2019	40	GATA3	P409fs*38+ (INS)	28
1018	2019	40	STAG2	E681fs*10 (SV DEL)	5
1019	2020	30	AKT3	(CN AMP)	NA
1019	2020	30	CHEK2	R95fs*15 (SV DEL)	71
1019	2020	30	CREBBP	splice (MUT)	48
1019	2020	30	MCL1	(CN AMP)	NA
1019	2020	30	MYST3	(CN AMP)	NA
1019	2020	30	TP53	R213* (MUT)	47
1019		30	Phosphatase and Tensin homolog	(CN DEL)	NA
1020		50	GATA3	D336fs*17 (INS)	30
1020		50	MYC	(CN AMP)	NA
1020		50	ZNF217	(CN AMP)	NA
1020	2021	40	AURKA	(CN AMP)	NA
1020	2021	40	GATA3	D336fs*17 (INS)	16
1020	2021	40	GNAS	(CN AMP)	NA
1020	2021	40	MDM2	(CN AMP)	NA
1020	2021	40	MDM4	(CN AMP)	NA
1020	2021	40	MYC	(CN AMP)	NA
1020	2021	40	SRC	(CN AMP)	NA
1020	2021	40	TOP1	(CN AMP)	NA
1020	2021	40	ZNF217	(CN AMP)	NA
1021	2022	50	<i>PIK3CA</i>	E542A (MUT)	45
1021	2022	50	<i>PIK3CA</i>	Y1021H (MUT)	46
1022	2023	50	MAP3K1	K1037fs*44 (SV DEL)	36
1022	2023	50	MAP3K1	P215fs*5 (SV DEL)	26
1022	2023	50	<i>PIK3CA</i>	H1047R (MUT)	49
1023	2024	60	AKT1	E17K (MUT)	20



1023	2024	60	ATM	T1871I (MUT)	61
1023	2024	60	CCND1	(CN AMP)	NA
1023	2024	60	MYST3	(CN AMP)	NA
1030	2031	50	Estrogen receptor 1	D538G (MUT)	22
1030	2031	50	<i>PIK3CA</i>	G12D (MUT)	32
1030	2031	50	<i>PIK3CA</i>	Q546R (MUT)	3
1030	2031	50	Phosphatase and Tensin homolog	R130Q (MUT)	64
1032	2033	20	<i>PIK3CA</i>	E545K (MUT)	7
1032	2033	20	Phosphatase and Tensin homolog	T167P (MUT)	11
1033	2034	70	CDH1	splice (MUT)	58
1033	2034	70	MAP3K1	E1490fs*31+ (INS)	40
1033	2034	70	MTOR	E1799K (MUT)	2
1033	2034	70	<i>PIK3CA</i>	H1047R (MUT)	41
1057	2059	40	Cyclin dependent kinase-4	(CN AMP)	NA
1057	2059	40	NF1	S1355* (MUT)	11
1057	2059	40	<i>PIK3CA</i>	E542K (MUT)	17
1057	2059	40	<i>PIK3CA</i>	E726K (MUT)	6
1058	2060	90	<i>PIK3CA</i>	H1047R (MUT)	34
1058	2060	90	RET	(CN AMP)	NA
1059	2061	20	PAX5	S213L (MUT)	44
1059	2061	20	<i>PIK3CA</i>	H1047L (MUT)	13
1060	2062	40	Estrogen receptor 1	Y537S (MUT)	23
1060	2062	40	MAP3K1	N255fs*45 (SV DEL)	29
1060	2062	40	MAP3K1	P243fs*19 (SV DEL)	23
1060	2062	40	MCL1	(CN AMP)	NA
1060	2062	40	MYC	(CN AMP)	NA
1060	2062	40	PBRM1	R1027* (MUT)	18
1060	2062	40	<i>PIK3CA</i>	C378F (MUT)	42
1060	2062	40	<i>PIK3CA</i>	H1047R (MUT)	47
1060	2062	40	PRSS8	(CN AMP)	NA
1060	2062	40	TP53	S303fs*42 (SV DEL)	37
1061	2063	90	EPHA3	(CN AMP)	NA
1061	2063	90	Fibroblast growth receptor 1	(CN AMP)	NA
1061	2063	90	MAP2K4	(CN DEL)	NA
1061	2063	90	<i>PIK3CA</i>	E542K (MUT)	45
1061	2063	90	TP53	splice (MUT)	83
1061	2063	90	ZNF703	(CN AMP)	NA
1062	2064	30	Estrogen receptor 1	(CN AMP)	NA

1062	2064	30	Fibroblast growth receptor 1	(CN AMP)	NA
1062	2064	30	<i>PIK3CA</i>	E542K (MUT)	19
1062	2064	30	ZNF703	(CN AMP)	NA
1063	2065	20	MCL1	(CN AMP)	NA
1063	2065	20	<i>PIK3CA</i>	H1047R (MUT)	3
1063	2065	20	<i>PIK3CA</i>	N345K (MUT)	7
1063	2065	20	<i>PIK3CA</i>	Q546P (MUT)	3
1064	2066	30	CCND1	(CN AMP)	NA
1064	2066	30	CDH1	P159fs*56 (SV DEL)	12
1064	2066	30	EMSY	(CN AMP)	NA
1064	2066	30	ERBB2	L755_T759del (SV DEL)	7
1064	2066	30	Fibroblast growth factor 19	(CN AMP)	NA
1064	2066	30	Fibroblast growth factor 3	(CN AMP)	NA
1064	2066	30	FGF4	(CN AMP)	NA
1064	2066	30	NCOR1	S70fs*60 (SV DEL)	11
1064	2066	30	TBX3	D367fs*265 (SV DEL)	10
1065	2067	50	ATM	R189K (MUT)	6
1065	2067	50	Estrogen receptor 1	(CN AMP)	NA
1065	2067	50	<i>PIK3CA</i>	E418K (MUT)	56
1065	2067	50	<i>PIK3CA</i>	E545K (MUT)	53
1065	2067	50	TP53	C242fs*84 (SV DEL)	32
1066	2068	50	ARFRP1	(CN AMP)	NA
1066	2068	50	AURKA	(CN AMP)	NA
1066	2068	50	CCND1	(CN AMP)	NA
1066	2068	50	EMSY	(CN AMP)	NA
1066	2068	50	Estrogen receptor 1	Y537S (MUT)	22
1066	2068	50	Fibroblast growth factor 19	(CN AMP)	NA
1066	2068	50	Fibroblast growth factor 3	(CN AMP)	NA
1066	2068	50	FGF4	(CN AMP)	NA
1066	2068	50	Fibroblast growth receptor 1	(CN AMP)	NA
1066	2068	50	GNAS	(CN AMP)	NA
1066	2068	50	IKBKE	(CN AMP)	NA
1066	2068	50	KDR	(CN AMP)	NA
1066	2068	50	KIT	(CN AMP)	NA
1066	2068	50	MCL1	(CN AMP)	NA
1066	2068	50	MDM4	(CN AMP)	NA

1066	2068	50	MYC	(CN AMP)	NA
1066	2068	50	MYST3	(CN AMP)	NA
1066	2068	50	NFKBIA	(CN AMP)	NA
1066	2068	50	PDGFRA	(CN AMP)	NA
1066	2068	50	<i>PIK3CA</i>	E542K (MUT)	39
1066	2068	50	<i>PIK3CA</i>	E545K (MUT)	39
1066	2068	50	TOP1	(CN AMP)	NA
1066	2068	50	ZNF217	(CN AMP)	NA
1066	2068	50	ZNF703	(CN AMP)	NA
1067	2070	80	DNMT3A	(CN DEL)	NA
1067	2070	80	<i>PIK3CA</i>	E545A (MUT)	32
1068	2071	30	ARID1A	R1721* (MUT)	9
1068	2071	30	MAP3K1	S371fs*1 (INS)	28
1068	2071	30	MAP3K1	T1148fs*3 (INS)	23
1068	2071	30	MYC	(CN AMP)	NA
1068	2071	30	<i>PIK3CA</i>	H1047L (MUT)	37
1068	2071	30	ZNF703	(CN AMP)	NA
1077	2080	70	Fibroblast growth receptor 2	(CN AMP)	NA
1077	2080	70	<i>PIK3CA</i>	T1025S (MUT)	38
1077	2080	70	TP53	E271* (MUT)	24
1078	2081	70	CDH1	Y228fs*1 (INS)	67
1078	2081	70	Estrogen receptor 1	D538G (MUT)	69
1078	2081	70	<i>PIK3CA</i>	E545K (MUT)	72
1078	2081	70	13q14(RB1)V	S347fs*2 (SV DEL)	76
1078	2081	70	RUNX1	Q262* (MUT)	39
1078	2081	70	TP53	I251fs*95 (INS)	64
1079	2082	20	CCND1	(CN AMP)	NA
1079	2082	20	Fibroblast growth factor 19	(CN AMP)	NA
1079	2082	20	Fibroblast growth factor 3	(CN AMP)	NA
1079	2082	20	FGF4	(CN AMP)	NA
1079	2082	20	Fibroblast growth receptor 1	(CN AMP)	NA
1079	2082	20	GATA3	M401fs*45+ (SV DEL)	14
1079	2082	20	MYST3	(CN AMP)	NA
1079	2082	20	ZNF703	(CN AMP)	NA
1080	2083	40	AKT1	E17K (MUT)	40
1080	2083	40	Estrogen receptor 1	Y537S (MUT)	17
1080	2083	40	Fibroblast growth receptor 1	(CN AMP)	NA
1080	2083	40	TP53	P36fs*7 (INS)	59

1080	2083	40	ZNF703	(CN AMP)	NA
1080		40	ATRX	truncation (REARR)	NA
1080		40	MYC	(CN AMP)	NA
1081	2084	20	SMARCA4	R801H (MUT)	51
1081	2084	20	TP53	H179Y (MUT)	2
1082	2085	30	ARID1A	S138* (MUT)	40
1082	2085	30	CCND1	(CN AMP)	NA
1082	2085	30	EMSY	(CN AMP)	NA
1082	2085	30	Fibroblast growth factor 19	(CN AMP)	NA
1082	2085	30	Fibroblast growth factor 3	(CN AMP)	NA
1082	2085	30	FGF4	(CN AMP)	NA
1082	2085	30	<i>PIK3CA</i>	E545K (MUT)	42
1083	2086	20	ATM	R189K (MUT)	6
1083	2086	20	EP300	P886fs*22 (SV DEL)	7
1083	2086	20	Estrogen receptor 1	D538G (MUT)	7
1094	2097	30	CCND1	(CN AMP)	NA
1095	2098	60	ARFRP1	(CN AMP)	NA
1095	2098	60	AURKA	(CN AMP)	NA
1095	2098	60	CCND1	(CN AMP)	NA
1095	2098	60	ERBB2	(CN AMP)	NA
1095	2098	60	NF1	S1100fs*7	5
1095	2098	60	<i>PIK3CA</i>	H1047R (MUT)	44
1095	2098	60	PTPRD	R1323C (MUT)	21
1096	2099	70	CDH1	Q255* (MUT)	30
1096	2099	70	KRAS	G12V (MUT)	3
1096	2099	70	MCL1	(CN AMP)	NA
1096	2099	70	NFE2L2	W8R (MUT)	16
1096	2099	70	<i>PIK3CA</i>	E545K (MUT)	14
1096	2099	70	TBX3	F136fs*3 (SV DEL)	29
1096	2099	70	TBX3	N630fs*2 (SV DEL)	28
1097	2100	60	Fibroblast growth receptor 1	(CN AMP)	NA
1097	2100	60	MAP2K4	(CN DEL)	NA
1097	2100	60	MYST3	(CN AMP)	NA
1097	2100	60	<i>PIK3CA</i>	E545K (MUT)	40
1097	2100	60	13q14(RB1)V	I532fs*11 (SV DEL)	66
1097	2100	60	ZNF703	(CN AMP)	NA
1098	210]1	20	ARID1A	Q1334_R1335insQ (INS)	22
1098	2101	20	CCND1	(CN AMP)	NA

1098	2101	20	EMSY	(CN AMP)	NA
1098	2101	20	Fibroblast growth receptor 1	(CN AMP)	NA
1098	2101	20	MYC	(CN AMP)	NA
1098	2101	20	MYST3	(CN AMP)	NA
1098	2101	20	<i>PIK3CA</i>	H1047R (MUT)	24
1098	2101	20	ZNF703	(CN AMP)	NA
1098		20	SMARCA4	deletion (REARR)	NA
1101	2104	40	CDH1	Q23* (MUT)	73
1101	2104	40	MAP2K4	(CN DEL)	NA
1101	2104	40	<i>PIK3CA</i>	E545K (MUT)	44
1102	2105	30	AKT1	E17K (MUT)	39
1102	2105	30	CCND1	(CN AMP)	NA
1102	2105	30	Fibroblast growth factor 19	(CN AMP)	NA
1102	2105	30	Fibroblast growth factor 3	(CN AMP)	NA
1102	2105	30	FGF4	(CN AMP)	NA
1102	2105	30	MYC	(CN AMP)	NA
1102	2105	30	TP53	R248G (MUT)	36
1103	2106	20	GATA3	S402fs*45+ (INS)	13
1103	2106	20	TP53	V10I (MUT)	32
1104	2107	25	BRCA1	splice site 594-2A>C (MUT)	45
1104	2107	25	CDH1	S111fs*6 (SV DEL)	17
1106	2109	20	CDH1	I566fs*22 (INS)	21
1106	2109	20	<i>PIK3CA</i>	H1047R (MUT)	12
1107	2110	30	<i>PIK3CA</i>	H1047R (MUT)	2
1107	2110	30	TP53	R175H (MUT)	2

ID, identification; MUT, mutant; NA, not applicable; NGS, next-generation sequencing.

**eTable 7. NGS Data Collected at Screening (by Patients Who Received Alpelisib Plus Fulvestrant) – Mutations of Unknown Significance**

Subject Dummy ID	Sample Dummy ID	Tumor Purity, %	Analyte Name
1017	2018	80	ABL1
1017	2018	80	AKT1
1017	2018	80	AKT2
1017	2018	80	AKT3
1017	2018	80	ALK
1017	2018	80	ALOX12B
1017	2018	80	APC
1017	2018	80	APCDD1
1017	2018	80	AR
1017	2018	80	ARAF
1017	2018	80	ARFRP1
1017	2018	80	ARID1A
1017	2018	80	ARID2
1017	2018	80	ASXL1
1017	2018	80	ATM
1017	2018	80	ATR
1017	2018	80	ATRX
1017	2018	80	AURKA
1017	2018	80	AURKB
1017	2018	80	AXL
1017	2018	80	BACH1
1017	2018	80	BAP1
1017	2018	80	BARD1
1017	2018	80	BCL-2
1017	2018	80	BCL2L2
1017	2018	80	BCL6
1017	2018	80	BCOR
1017	2018	80	BCORL1
1017	2018	80	BCR
1017	2018	80	BLM
1017	2018	80	BRAF
1017	2018	80	BRCA1
1017	2018	80	BRCA2
1017	2018	80	BRIP1
1017	2018	80	BTG1
1017	2018	80	BTK
1017	2018	80	C17orf39

1017	2018	80	CARD11
1017	2018	80	CASP8
1017	2018	80	CBFB
1017	2018	80	CBL
1017	2018	80	CCND1
1017	2018	80	CCND2
1017	2018	80	CCND3
1017	2018	80	CCNE1
1017	2018	80	CD79A
1017	2018	80	CD79B
1017	2018	80	CDC73
1017	2018	80	CDK12
1017	2018	80	Cyclin dependent kinase-4
1017	2018	80	CDK6
1017	2018	80	CDK8
1017	2018	80	CDKN1B
1017	2018	80	CDKN2A
1017	2018	80	CDKN2B
1017	2018	80	CDKN2C
1017	2018	80	CCAT/enhancer binding protein (CEBPA)
1017	2018	80	CHEK1
1017	2018	80	CHEK2
1017	2018	80	CHUK
1017	2018	80	CIC
1017	2018	80	CRBN
1017	2018	80	CREBBP
1017	2018	80	CRKL
1017	2018	80	CRLF2
1017	2018	80	CSF1R
1017	2018	80	CTCF
1017	2018	80	CTNNA1
1017	2018	80	CTNNB1
1017	2018	80	CUL4A
1017	2018	80	CUL4B
1017	2018	80	CYP17A1
1017	2018	80	DAXX
1017	2018	80	DDR2
1017	2018	80	DIS3
1017	2018	80	DNMT3A
1017	2018	80	DOT1L

1017	2018	80	Epidermal Growth Factor Receptor
1017	2018	80	EMSY
1017	2018	80	EP300
1017	2018	80	EPHA3
1017	2018	80	EPHA5
1017	2018	80	EPHB1
1017	2018	80	ERBB2
1017	2018	80	ERBB3
1017	2018	80	ERBB4
1017	2018	80	ERG
1017	2018	80	Estrogen receptor 1
1017	2018	80	ETV1
1017	2018	80	ETV4
1017	2018	80	ETV5
1017	2018	80	ETV6
1017	2018	80	EWSR1
1017	2018	80	EZH2
1017	2018	80	FAM123B(WTX)
1017	2018	80	FAM46C
1017	2018	80	FANCA
1017	2018	80	FANCC
1017	2018	80	FANCD2
1017	2018	80	FANCE
1017	2018	80	FANCF
1017	2018	80	FANCG
1017	2018	80	FANCI
1017	2018	80	FANCL
1017	2018	80	FANCM
1017	2018	80	FAT3
1017	2018	80	FBXW7
1017	2018	80	FGF10
1017	2018	80	FGF12
1017	2018	80	FGF14
1017	2018	80	Fibroblast growth factor 19
1017	2018	80	Fibroblast growth factor 23
1017	2018	80	Fibroblast growth factor 3
1017	2018	80	FGF4
1017	2018	80	FGF6
1017	2018	80	FGF7
1017	2018	80	Fibroblast growth receptor 1



1017	2018	80	Fibroblast growth receptor 2
1017	2018	80	Fibroblast growth receptor 3
1017	2018	80	Fibroblast growth receptor 4
1017	2018	80	FLT1
1017	2018	80	Fms-like tyrosine kinase 3 (FLT3)
1017	2018	80	FLT4
1017	2018	80	FOXL2
1017	2018	80	GATA1
1017	2018	80	GATA2
1017	2018	80	GATA3
1017	2018	80	GNA11
1017	2018	80	GNA13
1017	2018	80	GNAQ
1017	2018	80	GNAS
1017	2018	80	GPR124
1017	2018	80	GRIN2A
1017	2018	80	GSK3B
1017	2018	80	Hepatocyte growth factor
1017	2018	80	HLA-A
1017	2018	80	HRAS
1017	2018	80	IDH1
1017	2018	80	IDH2
1017	2018	80	Insulin-like growth factor 1
1017	2018	80	Insulin growth factor 1 receptor
1017	2018	80	Insulin-like growth factor 2, also somatomedin A
1017	2018	80	IKBKE
1017	2018	80	IKZF1
1017	2018	80	IL7R
1017	2018	80	INHBA
1017	2018	80	IRF4
1017	2018	80	IRS2
1017	2018	80	JAK1
1017	2018	80	JAK2
1017	2018	80	JAK3
1017	2018	80	JUN
1017	2018	80	KDM5A
1017	2018	80	KDM5C
1017	2018	80	KDM6A
1017	2018	80	KDR
1017	2018	80	KEAP1

1017	2018	80	KIT
1017	2018	80	KLHL6
1017	2018	80	LMO1
1017	2018	80	LRP1B
1017	2018	80	MAP2K1
1017	2018	80	MAP2K2
1017	2018	80	MAP2K4
1017	2018	80	MAP3K1
1017	2018	80	MAP3K13
1017	2018	80	MCL1
1017	2018	80	MDM2
1017	2018	80	MDM4
1017	2018	80	MED12
1017	2018	80	MEF2B
1017	2018	80	MEN1
1017	2018	80	MET
1017	2018	80	Microphthalmia associated transcription factor
1017	2018	80	MLH1
1017	2018	80	MLL
1017	2018	80	MLL2
1017	2018	80	MPL
1017	2018	80	MRE11A
1017	2018	80	MSH2
1017	2018	80	MSH6
1017	2018	80	MTOR
1017	2018	80	MUTYH
1017	2018	80	MYC
1017	2018	80	MYCL1
1017	2018	80	MYCN
1017	2018	80	MYD88
1017	2018	80	MYST3
1017	2018	80	NBN
1017	2018	80	NCOR1
1017	2018	80	NF1
1017	2018	80	NF2
1017	2018	80	NFE2L2
1017	2018	80	NFKBIA
1017	2018	80	NKX2-1
1017	2018	80	NOTCH1
1017	2018	80	NOTCH2

1017	2018	80	NOTCH3
1017	2018	80	NOTCH4
1017	2018	80	Nucleophosmin (NPM1)
1017	2018	80	NRAS
1017	2018	80	NSD1
1017	2018	80	NTRK1
1017	2018	80	NTRK2
1017	2018	80	NTRK3
1017	2018	80	NUP93
1017	2018	80	PAK3
1017	2018	80	PAK7
1017	2018	80	PALB2
1017	2018	80	PARP1
1017	2018	80	PARP2
1017	2018	80	PARP3
1017	2018	80	PARP4
1017	2018	80	PAX5
1017	2018	80	PBRM1
1017	2018	80	PDGFRA
1017	2018	80	PDGFRB
1017	2018	80	PDK1
1017	2018	80	PIK3C2G
1017	2018	80	PIK3C3
1017	2018	80	PIK3CG
1017	2018	80	PIK3R1
1017	2018	80	PIK3R2
1017	2018	80	PMS2
1017	2018	80	PNRC1
1017	2018	80	PPP2R1A
1017	2018	80	PRDM1
1017	2018	80	PRKAR1A
1017	2018	80	PRKDC
1017	2018	80	PRSS8
1017	2018	80	PTCH1
1017	2018	80	Phosphatase and Tensin homolog
1017	2018	80	PTPN11
1017	2018	80	RAD50
1017	2018	80	RAD51
1017	2018	80	RAD51B
1017	2018	80	RAD51C

1017	2018	80	RAD51D
1017	2018	80	RAD52
1017	2018	80	RAD54L
1017	2018	80	RAF1
1017	2018	80	RARA
1017	2018	80	13q14(RB1)V
1017	2018	80	REL
1017	2018	80	RET
1017	2018	80	RICTOR
1017	2018	80	RNF43
1017	2018	80	ROS1
1017	2018	80	RPA1
1017	2018	80	RPTOR
1017	2018	80	RUNX1
1017	2018	80	RUNX1T1
1017	2018	80	SETD2
1017	2018	80	SF3B1
1017	2018	80	SH2B3
1017	2018	80	SMAD2
1017	2018	80	SMAD4
1017	2018	80	SMARCA4
1017	2018	80	SMARCB1
1017	2018	80	SMARCD1
1017	2018	80	SMO
1017	2018	80	SOCS1
1017	2018	80	SOX10
1017	2018	80	SOX2
1017	2018	80	SPEN
1017	2018	80	SPOP
1017	2018	80	SRC
1017	2018	80	STAG2
1017	2018	80	STAT4
1017	2018	80	STK11
1017	2018	80	SUFU
1017	2018	80	SYK
1017	2018	80	TBX3
1017	2018	80	TET2
1017	2018	80	TGFBR2
1017	2018	80	TIPARP
1017	2018	80	TMPRSS2

1017	2018	80	TNFAIP3
1017	2018	80	TNFRSF14
1017	2018	80	TOP1
1017	2018	80	TP53
1017	2018	80	TRRAP
1017	2018	80	Tuberous sclerosis complex 1 gene
1017	2018	80	Tuberous sclerosis complex 2 gene
1017	2018	80	TSHR
1017	2018	80	Von Hippel-Lindau
1017	2018	80	WISP3
1017	2018	80	WT1
1017	2018	80	XPO1
1017	2018	80	XRCC3
1017	2018	80	ZNF217
1017	2018	80	ZNF703
1018	2019	40	ABL1
1018	2019	40	AKT1
1018	2019	40	AKT2
1018	2019	40	AKT3
1018	2019	40	ALK
1018	2019	40	ALOX12B
1018	2019	40	APC
1018	2019	40	APCDD1
1018	2019	40	AR
1018	2019	40	ARAF
1018	2019	40	ARFRP1
1018	2019	40	ARID1A
1018	2019	40	ARID2
1018	2019	40	ASXL1
1018	2019	40	ATM
1018	2019	40	ATR
1018	2019	40	ATRX
1018	2019	40	AURKA
1018	2019	40	AURKB
1018	2019	40	AXL
1018	2019	40	BACH1
1018	2019	40	BAP1
1018	2019	40	BARD1
1018	2019	40	BCL-2

1018	2019	40	BCL2L2
1018	2019	40	BCL6
1018	2019	40	BCOR
1018	2019	40	BCORL1
1018	2019	40	BCR
1018	2019	40	BLM
1018	2019	40	BRAF
1018	2019	40	BRCA1
1018	2019	40	BRCA2
1018	2019	40	BRIP1
1018	2019	40	BTG1
1018	2019	40	BTK
1018	2019	40	C17orf39
1018	2019	40	CARD11
1018	2019	40	CASP8
1018	2019	40	CBFB
1018	2019	40	CBL
1018	2019	40	CCND2
1018	2019	40	CCND3
1018	2019	40	CCNE1
1018	2019	40	CD79A
1018	2019	40	CD79B
1018	2019	40	CDC73
1018	2019	40	CDH1
1018	2019	40	CDK12
1018	2019	40	Cyclin dependent kinase-4
1018	2019	40	CDK6
1018	2019	40	CDK8
1018	2019	40	CDKN1B
1018	2019	40	CDKN2A
1018	2019	40	CDKN2B
1018	2019	40	CDKN2C
1018	2019	40	CCAT/enhancer binding protein (CEBPA)
1018	2019	40	CHEK1
1018	2019	40	CHEK2
1018	2019	40	CHUK
1018	2019	40	CIC
1018	2019	40	CRBN
1018	2019	40	CREBBP
1018	2019	40	CRKL

1018	2019	40	CRLF2
1018	2019	40	CSF1R
1018	2019	40	CTCF
1018	2019	40	CTNNA1
1018	2019	40	CTNNB1
1018	2019	40	CUL4A
1018	2019	40	CUL4B
1018	2019	40	CYP17A1
1018	2019	40	DAXX
1018	2019	40	DDR2
1018	2019	40	DIS3
1018	2019	40	DNMT3A
1018	2019	40	DOT1L
1018	2019	40	Epidermal Growth Factor Receptor
1018	2019	40	EMSY
1018	2019	40	EP300
1018	2019	40	EPHA3
1018	2019	40	EPHA5
1018	2019	40	EPHB1
1018	2019	40	ERBB2
1018	2019	40	ERBB3
1018	2019	40	ERBB4
1018	2019	40	ERG
1018	2019	40	Estrogen receptor 1
1018	2019	40	ETV1
1018	2019	40	ETV4
1018	2019	40	ETV5
1018	2019	40	ETV6
1018	2019	40	EWSR1
1018	2019	40	EZH2
1018	2019	40	FAM123B(WTX)
1018	2019	40	FAM46C
1018	2019	40	FANCA
1018	2019	40	FANCC
1018	2019	40	FANCD2
1018	2019	40	FANCE
1018	2019	40	FANCF
1018	2019	40	FANCG
1018	2019	40	FANCI
1018	2019	40	FANCL

1018	2019	40	FANCM
1018	2019	40	FAT3
1018	2019	40	FBXW7
1018	2019	40	FGF10
1018	2019	40	FGF12
1018	2019	40	FGF14
1018	2019	40	Fibroblast growth factor 23
1018	2019	40	FGF6
1018	2019	40	FGF7
1018	2019	40	Fibroblast growth receptor 1
1018	2019	40	Fibroblast growth receptor 2
1018	2019	40	Fibroblast growth receptor 3
1018	2019	40	Fibroblast growth receptor 4
1018	2019	40	FLT1
1018	2019	40	Fms-like tyrosine kinase 3 (FLT3)
1018	2019	40	FLT4
1018	2019	40	FOXL2
1018	2019	40	GATA1
1018	2019	40	GATA2
1018	2019	40	GNA11
1018	2019	40	GNA13
1018	2019	40	GNAQ
1018	2019	40	GNAS
1018	2019	40	GPR124
1018	2019	40	GRIN2A
1018	2019	40	GSK3B
1018	2019	40	Hepatocyte growth factor
1018	2019	40	HLA-A
1018	2019	40	HRAS
1018	2019	40	IDH1
1018	2019	40	IDH2
1018	2019	40	Insulin-like growth factor 1
1018	2019	40	Insulin growth factor 1 receptor
1018	2019	40	Insulin-like growth factor 2, also somatomedin A
1018	2019	40	IKBKE
1018	2019	40	IKZF1
1018	2019	40	IL7R
1018	2019	40	INHBA
1018	2019	40	IRF4
1018	2019	40	IRS2



1018	2019	40	JAK1
1018	2019	40	JAK2
1018	2019	40	JAK3
1018	2019	40	JUN
1018	2019	40	KDM5A
1018	2019	40	KDM5C
1018	2019	40	KDM6A
1018	2019	40	KDR
1018	2019	40	KEAP1
1018	2019	40	KIT
1018	2019	40	KLHL6
1018	2019	40	KRAS
1018	2019	40	LMO1
1018	2019	40	LRP1B
1018	2019	40	MAP2K1
1018	2019	40	MAP2K2
1018	2019	40	MAP2K4
1018	2019	40	MAP3K1
1018	2019	40	MAP3K13
1018	2019	40	MCL1
1018	2019	40	MDM2
1018	2019	40	MDM4
1018	2019	40	MED12
1018	2019	40	MEF2B
1018	2019	40	MEN1
1018	2019	40	MET
1018	2019	40	Microphthalmia associated transcription factor
1018	2019	40	MLH1
1018	2019	40	MLL
1018	2019	40	MLL2
1018	2019	40	MPL
1018	2019	40	MRE11A
1018	2019	40	MSH2
1018	2019	40	MSH6
1018	2019	40	MTOR
1018	2019	40	MUTYH
1018	2019	40	MYC
1018	2019	40	MYCL1
1018	2019	40	MYCN
1018	2019	40	MYD88

1018	2019	40	MYST3
1018	2019	40	NBN
1018	2019	40	NCOR1
1018	2019	40	NF1
1018	2019	40	NF2
1018	2019	40	NFE2L2
1018	2019	40	NFKBIA
1018	2019	40	NKX2-1
1018	2019	40	NOTCH1
1018	2019	40	NOTCH2
1018	2019	40	NOTCH3
1018	2019	40	NOTCH4
1018	2019	40	Nucleophosmin (NPM1)
1018	2019	40	NRAS
1018	2019	40	NSD1
1018	2019	40	NTRK1
1018	2019	40	NTRK2
1018	2019	40	NTRK3
1018	2019	40	NUP93
1018	2019	40	PAK3
1018	2019	40	PAK7
1018	2019	40	PALB2
1018	2019	40	PARP1
1018	2019	40	PARP2
1018	2019	40	PARP3
1018	2019	40	PARP4
1018	2019	40	PAX5
1018	2019	40	PBRM1
1018	2019	40	PDGFRA
1018	2019	40	PDGFRB
1018	2019	40	PDK1
1018	2019	40	PIK3C2G
1018	2019	40	PIK3C3
1018	2019	40	<i>PIK3CA</i>
1018	2019	40	PIK3CG
1018	2019	40	PIK3R1
1018	2019	40	PIK3R2
1018	2019	40	PMS2
1018	2019	40	PNRC1
1018	2019	40	PPP2R1A

1018	2019	40	PRDM1
1018	2019	40	PRKAR1A
1018	2019	40	PRKDC
1018	2019	40	PRSS8
1018	2019	40	PTCH1
1018	2019	40	Phosphatase and Tensin homolog
1018	2019	40	PTPN11
1018	2019	40	RAD50
1018	2019	40	RAD51
1018	2019	40	RAD51B
1018	2019	40	RAD51C
1018	2019	40	RAD51D
1018	2019	40	RAD52
1018	2019	40	RAD54L
1018	2019	40	RAF1
1018	2019	40	RARA
1018	2019	40	13q14(RB1)V
1018	2019	40	REL
1018	2019	40	RET
1018	2019	40	RICTOR
1018	2019	40	RNF43
1018	2019	40	ROS1
1018	2019	40	RPA1
1018	2019	40	RPTOR
1018	2019	40	RUNX1
1018	2019	40	RUNX1T1
1018	2019	40	SETD2
1018	2019	40	SF3B1
1018	2019	40	SH2B3
1018	2019	40	SMAD2
1018	2019	40	SMAD4
1018	2019	40	SMARCA4
1018	2019	40	SMARCB1
1018	2019	40	SMARCD1
1018	2019	40	SMO
1018	2019	40	SOCS1
1018	2019	40	SOX10
1018	2019	40	SOX2
1018	2019	40	SPEN
1018	2019	40	SPOP

1018	2019	40	SRC
1018	2019	40	STAT4
1018	2019	40	STK11
1018	2019	40	SUFU
1018	2019	40	SYK
1018	2019	40	TBX3
1018	2019	40	TET2
1018	2019	40	TGFBR2
1018	2019	40	TIPARP
1018	2019	40	TMPRSS2
1018	2019	40	TNFAIP3
1018	2019	40	TNFRSF14
1018	2019	40	TOP1
1018	2019	40	TP53
1018	2019	40	TRRAP
1018	2019	40	Tuberous sclerosis complex 1 gene
1018	2019	40	Tuberous sclerosis complex 2 gene
1018	2019	40	TSHR
1018	2019	40	Von Hippel-Lindau
1018	2019	40	WISP3
1018	2019	40	WT1
1018	2019	40	XPO1
1018	2019	40	XRCC3
1018	2019	40	ZNF217
1018	2019	40	ZNF703
1019	2020	30	ABL1
1019	2020	30	AKT1
1019	2020	30	AKT2
1019	2020	30	ALK
1019	2020	30	ALOX12B
1019	2020	30	APC
1019	2020	30	APCDD1
1019	2020	30	AR
1019	2020	30	ARAF
1019	2020	30	ARFRP1
1019	2020	30	ARID1A
1019	2020	30	ARID2
1019	2020	30	ASXL1
1019	2020	30	ATM

1019	2020	30	ATR
1019	2020	30	ATRX
1019	2020	30	AURKA
1019	2020	30	AURKB
1019	2020	30	AXL
1019	2020	30	BACH1
1019	2020	30	BAP1
1019	2020	30	BARD1
1019	2020	30	BCL-2
1019	2020	30	BCL2L2
1019	2020	30	BCL6
1019	2020	30	BCOR
1019	2020	30	BCORL1
1019	2020	30	BCR
1019	2020	30	BLM
1019	2020	30	BRAF
1019	2020	30	BRCA1
1019	2020	30	BRCA2
1019	2020	30	BRIP1
1019	2020	30	BTG1
1019	2020	30	BTK
1019	2020	30	C17orf39
1019	2020	30	CARD11
1019	2020	30	CASP8
1019	2020	30	CBFB
1019	2020	30	CBL
1019	2020	30	CCND1
1019	2020	30	CCND2
1019	2020	30	CCND3
1019	2020	30	CCNE1
1019	2020	30	CD79A
1019	2020	30	CD79B
1019	2020	30	CDC73
1019	2020	30	CDH1
1019	2020	30	CDK12
1019	2020	30	Cyclin dependent kinase-4
1019	2020	30	CDK6
1019	2020	30	CDK8
1019	2020	30	CDKN1B
1019	2020	30	CDKN2A

1019	2020	30	CDKN2B
1019	2020	30	CDKN2C
1019	2020	30	CCAT/enhancer binding protein (CEBPA)
1019	2020	30	CHEK1
1019	2020	30	CHUK
1019	2020	30	CIC
1019	2020	30	CRBN
1019	2020	30	CRKL
1019	2020	30	CRLF2
1019	2020	30	CSF1R
1019	2020	30	CTCF
1019	2020	30	CTNNA1
1019	2020	30	CTNNB1
1019	2020	30	CUL4A
1019	2020	30	CUL4B
1019	2020	30	CYP17A1
1019	2020	30	DAXX
1019	2020	30	DDR2
1019	2020	30	DIS3
1019	2020	30	DNMT3A
1019	2020	30	DOT1L
1019	2020	30	Epidermal Growth Factor Receptor
1019	2020	30	EMSY
1019	2020	30	EP300
1019	2020	30	EPHA3
1019	2020	30	EPHA5
1019	2020	30	EPHB1
1019	2020	30	ERBB2
1019	2020	30	ERBB3
1019	2020	30	ERBB4
1019	2020	30	ERG
1019	2020	30	Estrogen receptor 1
1019	2020	30	ETV1
1019	2020	30	ETV4
1019	2020	30	ETV5
1019	2020	30	ETV6
1019	2020	30	EWSR1
1019	2020	30	EZH2
1019	2020	30	FAM123B(WTX)

1019	2020	30	FAM46C
1019	2020	30	FANCA
1019	2020	30	FANCC
1019	2020	30	FANCD2
1019	2020	30	FANCE
1019	2020	30	FANCF
1019	2020	30	FANCG
1019	2020	30	FANCI
1019	2020	30	FANCL
1019	2020	30	FANCM
1019	2020	30	FAT3
1019	2020	30	FBXW7
1019	2020	30	FGF10
1019	2020	30	FGF12
1019	2020	30	FGF14
1019	2020	30	Fibroblast growth factor 19
1019	2020	30	Fibroblast growth factor 23
1019	2020	30	Fibroblast growth factor 3
1019	2020	30	FGF4
1019	2020	30	FGF6
1019	2020	30	FGF7
1019	2020	30	Fibroblast growth receptor 1
1019	2020	30	Fibroblast growth receptor 2
1019	2020	30	Fibroblast growth receptor 3
1019	2020	30	Fibroblast growth receptor 4
1019	2020	30	FLT1
1019	2020	30	Fms-like tyrosine kinase 3 (FLT3)
1019	2020	30	FLT4
1019	2020	30	FOXL2
1019	2020	30	GATA1
1019	2020	30	GATA2
1019	2020	30	GATA3
1019	2020	30	GNA11
1019	2020	30	GNA13
1019	2020	30	GNAQ
1019	2020	30	GNAS
1019	2020	30	GPR124
1019	2020	30	GRIN2A
1019	2020	30	GSK3B
1019	2020	30	Hepatocyte growth factor

1019	2020	30	HLA-A
1019	2020	30	HRAS
1019	2020	30	IDH1
1019	2020	30	IDH2
1019	2020	30	Insulin-like growth factor 1
1019	2020	30	Insulin growth factor 1 receptor
1019	2020	30	Insulin-like growth factor 2, also somatomedin A
1019	2020	30	IKBKE
1019	2020	30	IKZF1
1019	2020	30	IL7R
1019	2020	30	INHBA
1019	2020	30	IRF4
1019	2020	30	IRS2
1019	2020	30	JAK1
1019	2020	30	JAK2
1019	2020	30	JAK3
1019	2020	30	JUN
1019	2020	30	KDM5A
1019	2020	30	KDM5C
1019	2020	30	KDM6A
1019	2020	30	KDR
1019	2020	30	KEAP1
1019	2020	30	KIT
1019	2020	30	KLHL6
1019	2020	30	KRAS
1019	2020	30	LMO1
1019	2020	30	LRP1B
1019	2020	30	MAP2K1
1019	2020	30	MAP2K2
1019	2020	30	MAP2K4
1019	2020	30	MAP3K1
1019	2020	30	MAP3K13
1019	2020	30	MDM2
1019	2020	30	MDM4
1019	2020	30	MED12
1019	2020	30	MEF2B
1019	2020	30	MEN1
1019	2020	30	MET
1019	2020	30	Microphthalmia associated transcription factor



1019	2020	30	MLH1
1019	2020	30	MLL
1019	2020	30	MLL2
1019	2020	30	MPL
1019	2020	30	MRE11A
1019	2020	30	MSH2
1019	2020	30	MSH6
1019	2020	30	MTOR
1019	2020	30	MUTYH
1019	2020	30	MYC
1019	2020	30	MYCL1
1019	2020	30	MYCN
1019	2020	30	MYD88
1019	2020	30	NBN
1019	2020	30	NCOR1
1019	2020	30	NF1
1019	2020	30	NF2
1019	2020	30	NFE2L2
1019	2020	30	NFKBIA
1019	2020	30	NKX2-1
1019	2020	30	NOTCH1
1019	2020	30	NOTCH2
1019	2020	30	NOTCH3
1019	2020	30	NOTCH4
1019	2020	30	Nucleophosmin (NPM1)
1019	2020	30	NRAS
1019	2020	30	NSD1
1019	2020	30	NTRK1
1019	2020	30	NTRK2
1019	2020	30	NTRK3
1019	2020	30	NUP93
1019	2020	30	PAK3
1019	2020	30	PAK7
1019	2020	30	PALB2
1019	2020	30	PARP1
1019	2020	30	PARP2
1019	2020	30	PARP3
1019	2020	30	PARP4
1019	2020	30	PAX5
1019	2020	30	PBRM1

1019	2020	30	PDGFRA
1019	2020	30	PDGFRB
1019	2020	30	PKD1
1019	2020	30	PIK3C2G
1019	2020	30	PIK3C3
1019	2020	30	<i>PIK3CA</i>
1019	2020	30	PIK3CG
1019	2020	30	PIK3R1
1019	2020	30	PIK3R2
1019	2020	30	PMS2
1019	2020	30	PNRC1
1019	2020	30	PPP2R1A
1019	2020	30	PRDM1
1019	2020	30	PRKAR1A
1019	2020	30	PRKDC
1019	2020	30	PRSS8
1019	2020	30	PTCH1
1019	2020	30	PTPN11
1019	2020	30	RAD50
1019	2020	30	RAD51
1019	2020	30	RAD51B
1019	2020	30	RAD51C
1019	2020	30	RAD51D
1019	2020	30	RAD52
1019	2020	30	RAD54L
1019	2020	30	RAF1
1019	2020	30	RARA
1019	2020	30	13q14(RB1)V
1019	2020	30	REL
1019	2020	30	RET
1019	2020	30	RICTOR
1019	2020	30	RNF43
1019	2020	30	ROS1
1019	2020	30	RPA1
1019	2020	30	RPTOR
1019	2020	30	RUNX1
1019	2020	30	RUNX1T1
1019	2020	30	SETD2
1019	2020	30	SF3B1
1019	2020	30	SH2B3

1019	2020	30	SMAD2
1019	2020	30	SMARCA4
1019	2020	30	SMARCB1
1019	2020	30	SMARCD1
1019	2020	30	SMO
1019	2020	30	SOCS1
1019	2020	30	SOX10
1019	2020	30	SOX2
1019	2020	30	SPEN
1019	2020	30	SPOP
1019	2020	30	SRC
1019	2020	30	STAG2
1019	2020	30	STAT4
1019	2020	30	STK11
1019	2020	30	SUFU
1019	2020	30	SYK
1019	2020	30	TBX3
1019	2020	30	TET2
1019	2020	30	TGFBR2
1019	2020	30	TIPARP
1019	2020	30	TMPRSS2
1019	2020	30	TNFAIP3
1019	2020	30	TNFRSF14
1019	2020	30	TOP1
1019	2020	30	TRRAP
1019	2020	30	Tuberous sclerosis complex 1 gene
1019	2020	30	Tuberous sclerosis complex 2 gene
1019	2020	30	TSHR
1019	2020	30	Von Hippel-Lindau
1019	2020	30	WISP3
1019	2020	30	WT1
1019	2020	30	XPO1
1019	2020	30	XRCC3
1019	2020	30	ZNF217
1019	2020	30	ZNF703
1019		30	SMAD4
1020		50	ABL1
1020		50	AKT1
1020		50	AKT2

1020		50	AKT3
1020		50	ALK
1020		50	ALOX12B
1020		50	APC
1020		50	APCDD1
1020		50	AR
1020		50	ARAF
1020		50	ARFRP1
1020		50	ARID1A
1020		50	ARID2
1020		50	ASXL1
1020		50	ATM
1020		50	ATR
1020		50	ATRX
1020		50	AURKA
1020		50	AURKB
1020		50	AXL
1020		50	BACH1
1020		50	BAP1
1020		50	BARD1
1020		50	BCL-2
1020		50	BCL2L2
1020		50	BCL6
1020		50	BCOR
1020		50	BCORL1
1020		50	BCR
1020		50	BLM
1020		50	BRAF
1020		50	BRCA1
1020		50	BRCA2
1020		50	BRIP1
1020		50	BTG1
1020		50	BTK
1020		50	C17orf39
1020		50	CARD11
1020		50	CASP8
1020		50	CBFB
1020		50	CBL
1020		50	CCND1
1020		50	CCND2

1020		50	CCND3
1020		50	CCNE1
1020		50	CD79A
1020		50	CD79B
1020		50	CDC73
1020		50	CDH1
1020		50	CDK12
1020		50	Cyclin dependent kinase-4
1020		50	CDK6
1020		50	CDK8
1020		50	CDKN1B
1020		50	CDKN2A
1020		50	CDKN2B
1020		50	CDKN2C
1020		50	CCAT/enhancer binding protein (CEBPA)
1020		50	CHEK1
1020		50	CHEK2
1020		50	CHUK
1020		50	CIC
1020		50	CRBN
1020		50	CRKL
1020		50	CRLF2
1020		50	CSF1R
1020		50	CTCF
1020		50	CTNNA1
1020		50	CTNNB1
1020		50	CUL4A
1020		50	CUL4B
1020		50	CYP17A1
1020		50	DAXX
1020		50	DDR2
1020		50	DIS3
1020		50	DNMT3A
1020		50	DOT1L
1020		50	Epidermal Growth Factor Receptor
1020		50	EMSY
1020		50	EP300
1020		50	EPHA3
1020		50	EPHA5

1020		50	EPHB1
1020		50	ERBB2
1020		50	ERBB3
1020		50	ERBB4
1020		50	ERG
1020		50	Estrogen receptor 1
1020		50	ETV1
1020		50	ETV4
1020		50	ETV5
1020		50	ETV6
1020		50	EWSR1
1020		50	EZH2
1020		50	FAM123B(WTX)
1020		50	FAM46C
1020		50	FANCA
1020		50	FANCC
1020		50	FANCD2
1020		50	FANCE
1020		50	FANCF
1020		50	FANCG
1020		50	FANCI
1020		50	FANCL
1020		50	FANCM
1020		50	FAT3
1020		50	FBXW7
1020		50	FGF10
1020		50	FGF12
1020		50	FGF14
1020		50	Fibroblast growth factor 19
1020		50	Fibroblast growth factor 23
1020		50	Fibroblast growth factor 3
1020		50	FGF4
1020		50	FGF6
1020		50	FGF7
1020		50	Fibroblast growth receptor 1
1020		50	Fibroblast growth receptor 2
1020		50	Fibroblast growth receptor 3
1020		50	Fibroblast growth receptor 4
1020		50	FLT1
1020		50	Fms-like tyrosine kinase 3 (FLT3)

1020		50	FLT4
1020		50	FOXL2
1020		50	GATA1
1020		50	GATA2
1020		50	GNA11
1020		50	GNA13
1020		50	GNAQ
1020		50	GNAS
1020		50	GPR124
1020		50	GRIN2A
1020		50	GSK3B
1020		50	Hepatocyte growth factor
1020		50	HLA-A
1020		50	HRAS
1020		50	IDH1
1020		50	IDH2
1020		50	Insulin-like growth factor 1
1020		50	Insulin growth factor 1 receptor
1020		50	Insulin-like growth factor 2, also somatomedin A
1020		50	IKBKE
1020		50	IKZF1
1020		50	IL7R
1020		50	INHBA
1020		50	IRF4
1020		50	IRS2
1020		50	JAK1
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1020		50	MAP2K2
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1020		50	MAP3K1
1020		50	MAP3K13
1020		50	MCL1
1020		50	MDM2
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1020		50	MED12
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1020		50	Microphthalmia associated transcription factor
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1020		50	MLL
1020		50	MLL2
1020		50	MPL
1020		50	MRE11A
1020		50	MSH2
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1020		50	MYCL1
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1020		50	NFKBIA
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1020		50	NOTCH4
1020		50	Nucleophosmin (NPM1)
1020		50	NRAS
1020		50	NSD1
1020		50	NTRK1



1020		50	NTRK2
1020		50	NTRK3
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1020		50	PTPN11
1020		50	RAD50
1020		50	RAD51
1020		50	RAD51B
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1020		50	RAD54L
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1020		50	13q14(RB1)V
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1020		50	SH2B3
1020		50	SMAD2
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1020		50	SMARCA4
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1020		50	SUFU
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1020		50	TBX3
1020		50	TET2
1020		50	TGFBR2
1020		50	TIPARP
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1020		50	TNFAIP3
1020		50	TNFRSF14
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1020		50	TP53
1020		50	TRRAP

1020		50	Tuberous sclerosis complex 1 gene
1020		50	Tuberous sclerosis complex 2 gene
1020		50	TSHR
1020		50	Von Hippel-Lindau
1020		50	WISP3
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1020		50	XRCC3
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1021	2022	50	APC
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1021	2022	50	ATRX
1021	2022	50	AURKA
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1021	2022	50	BAP1
1021	2022	50	BARD1
1021	2022	50	BCL-2
1021	2022	50	BCL2L2
1021	2022	50	BCL6
1021	2022	50	BCOR
1021	2022	50	BCORL1
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1021	2022	50	BLM
1021	2022	50	BRAF
1021	2022	50	BRCA1
1021	2022	50	BRCA2
1021	2022	50	BRIP1
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1021	2022	50	BTK
1021	2022	50	C17orf39
1021	2022	50	CARD11
1021	2022	50	CASP8
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1021	2022	50	CBL
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1021	2022	50	CDC73
1021	2022	50	CDH1
1021	2022	50	CDK12
1021	2022	50	Cyclin dependent kinase-4
1021	2022	50	CDK6
1021	2022	50	CDK8
1021	2022	50	CDKN1B
1021	2022	50	CDKN2A
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1021	2022	50	CDKN2C
1021	2022	50	CCAT/enhancer binding protein (CEBPA)
1021	2022	50	CHEK1
1021	2022	50	CHEK2
1021	2022	50	CHUK
1021	2022	50	CIC
1021	2022	50	CRBN
1021	2022	50	CREBBP
1021	2022	50	CRKL
1021	2022	50	CRLF2
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1021	2022	50	CUL4A
1021	2022	50	CUL4B
1021	2022	50	CYP17A1
1021	2022	50	DAXX
1021	2022	50	DDR2
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1021	2022	50	DOT1L
1021	2022	50	Epidermal Growth Factor Receptor
1021	2022	50	EMSY
1021	2022	50	EP300
1021	2022	50	EPHA3
1021	2022	50	EPHA5
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1021	2022	50	ETV1
1021	2022	50	ETV4
1021	2022	50	ETV5
1021	2022	50	ETV6
1021	2022	50	EWSR1
1021	2022	50	EZH2
1021	2022	50	FAM123B(WTX)
1021	2022	50	FAM46C
1021	2022	50	FANCA
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1021	2022	50	Fibroblast growth factor 19
1021	2022	50	Fibroblast growth factor 23
1021	2022	50	Fibroblast growth factor 3
1021	2022	50	FGF4
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1021	2022	50	FGF7
1021	2022	50	Fibroblast growth receptor 1
1021	2022	50	Fibroblast growth receptor 2
1021	2022	50	Fibroblast growth receptor 3
1021	2022	50	Fibroblast growth receptor 4
1021	2022	50	FLT1
1021	2022	50	Fms-like tyrosine kinase 3 (FLT3)
1021	2022	50	FLT4
1021	2022	50	FOXL2
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1021	2022	50	GATA2
1021	2022	50	GATA3
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1021	2022	50	GNA13
1021	2022	50	GNAQ
1021	2022	50	GNAS
1021	2022	50	GPR124
1021	2022	50	GRIN2A
1021	2022	50	GSK3B
1021	2022	50	Hepatocyte growth factor
1021	2022	50	HLA-A
1021	2022	50	HRAS
1021	2022	50	IDH1
1021	2022	50	IDH2
1021	2022	50	Insulin-like growth factor 1
1021	2022	50	Insulin growth factor 1 receptor
1021	2022	50	Insulin-like growth factor 2, also somatomedin A
1021	2022	50	IKBKE
1021	2022	50	IKZF1
1021	2022	50	IL7R
1021	2022	50	INHBA
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1021	2022	50	MED12
1021	2022	50	MEF2B
1021	2022	50	MEN1
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1021	2022	50	MLL2
1021	2022	50	MPL
1021	2022	50	MRE11A
1021	2022	50	MSH2
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1021	2022	50	MTOR
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1021	2022	50	NOTCH2
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1021	2022	50	NRAS
1021	2022	50	NSD1
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1021	2022	50	NTRK2
1021	2022	50	NTRK3
1021	2022	50	NUP93
1021	2022	50	PAK3
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1021	2022	50	PARP3
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1021	2022	50	PIK3C3
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1021	2022	50	PIK3R2
1021	2022	50	PMS2
1021	2022	50	PNRC1
1021	2022	50	PPP2R1A
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1021	2022	50	PRKDC
1021	2022	50	PRSS8
1021	2022	50	PTCH1
1021	2022	50	Phosphatase and Tensin homolog
1021	2022	50	PTPN11
1021	2022	50	RAD50
1021	2022	50	RAD51
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1021	2022	50	RAD51C
1021	2022	50	RAD51D
1021	2022	50	RAD52
1021	2022	50	RAD54L
1021	2022	50	RAF1
1021	2022	50	RARA
1021	2022	50	13q14(RB1)V
1021	2022	50	REL
1021	2022	50	RET
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1021	2022	50	ROS1
1021	2022	50	RPA1
1021	2022	50	RPTOR
1021	2022	50	RUNX1
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1021	2022	50	SF3B1
1021	2022	50	SH2B3
1021	2022	50	SMAD2
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1021	2022	50	SMARCA4
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1021	2022	50	SOCS1
1021	2022	50	SOX10
1021	2022	50	SOX2
1021	2022	50	SPEN
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1021	2022	50	STAG2
1021	2022	50	STAT4
1021	2022	50	STK11
1021	2022	50	SUFU
1021	2022	50	SYK
1021	2022	50	TBX3
1021	2022	50	TET2
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1021	2022	50	TNFAIP3
1021	2022	50	TNFRSF14
1021	2022	50	TOP1
1021	2022	50	TP53
1021	2022	50	TRRAP
1021	2022	50	Tuberous sclerosis complex 1 gene
1021	2022	50	Tuberous sclerosis complex 2 gene
1021	2022	50	TSHR
1021	2022	50	Von Hippel-Lindau
1021	2022	50	WISP3
1021	2022	50	WT1
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1021	2022	50	XRCC3
1021	2022	50	ZNF217
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1022	2023	50	APC
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1022	2023	50	ARAF
1022	2023	50	ARFRP1
1022	2023	50	ARID1A
1022	2023	50	ARID2
1022	2023	50	ASXL1
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1022	2023	50	BAP1
1022	2023	50	BARD1
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1022	2023	50	BCR
1022	2023	50	BLM
1022	2023	50	BRAF
1022	2023	50	BRCA1
1022	2023	50	BRCA2
1022	2023	50	BRIP1
1022	2023	50	BTG1
1022	2023	50	BTK
1022	2023	50	C17orf39
1022	2023	50	CARD11
1022	2023	50	CASP8
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1022	2023	50	CDK12
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1022	2023	50	CDK6
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1022	2023	50	CDKN1B
1022	2023	50	CDKN2A
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1022	2023	50	CDKN2C
1022	2023	50	CCAT/enhancer binding protein (CEBPA)
1022	2023	50	CHEK1
1022	2023	50	CHEK2
1022	2023	50	CHUK
1022	2023	50	CIC
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1022	2023	50	CRLF2
1022	2023	50	CSF1R
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1022	2023	50	CTNNA1
1022	2023	50	CTNNB1
1022	2023	50	CUL4A
1022	2023	50	CUL4B
1022	2023	50	CYP17A1
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1022	2023	50	DIS3
1022	2023	50	DNMT3A
1022	2023	50	DOT1L
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1022	2023	50	ERBB2
1022	2023	50	ERBB3
1022	2023	50	ERBB4
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1022	2023	50	Estrogen receptor 1
1022	2023	50	ETV1
1022	2023	50	ETV4
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1022	2023	50	EWSR1
1022	2023	50	EZH2
1022	2023	50	FAM123B(WTX)

1022	2023	50	FAM46C
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1022	2023	50	FANCC
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1022	2023	50	FAT3
1022	2023	50	FBXW7
1022	2023	50	FGF10
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1022	2023	50	FGF14
1022	2023	50	Fibroblast growth factor 19
1022	2023	50	Fibroblast growth factor 23
1022	2023	50	Fibroblast growth factor 3
1022	2023	50	FGF4
1022	2023	50	FGF6
1022	2023	50	FGF7
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1022	2023	50	Fibroblast growth receptor 2
1022	2023	50	Fibroblast growth receptor 3
1022	2023	50	Fibroblast growth receptor 4
1022	2023	50	FLT1
1022	2023	50	Fms-like tyrosine kinase 3 (FLT3)
1022	2023	50	FLT4
1022	2023	50	FOXL2
1022	2023	50	GATA1
1022	2023	50	GATA2
1022	2023	50	GATA3
1022	2023	50	GNA11
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1022	2023	50	GNAS
1022	2023	50	GPR124
1022	2023	50	GRIN2A
1022	2023	50	GSK3B
1022	2023	50	Hepatocyte growth factor

1022	2023	50	HLA-A
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1022	2023	50	IDH1
1022	2023	50	IDH2
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1022	2023	50	Insulin growth factor 1 receptor
1022	2023	50	Insulin-like growth factor 2, also somatomedin A
1022	2023	50	IKZF1
1022	2023	50	IL7R
1022	2023	50	INHBA
1022	2023	50	IRF4
1022	2023	50	IRS2
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1022	2023	50	LMO1
1022	2023	50	LRP1B
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1022	2023	50	MDM2
1022	2023	50	MED12
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1022	2023	50	MEN1
1022	2023	50	MET
1022	2023	50	Microphthalmia associated transcription factor
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1022	2023	50	MLL
1022	2023	50	MLL2

1022	2023	50	MPL
1022	2023	50	MRE11A
1022	2023	50	MSH2
1022	2023	50	MSH6
1022	2023	50	MTOR
1022	2023	50	MUTYH
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1022	2023	50	NOTCH4
1022	2023	50	Nucleophosmin (NPM1)
1022	2023	50	NRAS
1022	2023	50	NSD1
1022	2023	50	NTRK2
1022	2023	50	NTRK3
1022	2023	50	NUP93
1022	2023	50	PAK3
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1022	2023	50	PDGFRA
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1022	2023	50	PIK3C3
1022	2023	50	PIK3CG
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1022	2023	50	PIK3R2
1022	2023	50	PMS2
1022	2023	50	PNRC1
1022	2023	50	PPP2R1A
1022	2023	50	PRDM1
1022	2023	50	PRKAR1A
1022	2023	50	PRKDC
1022	2023	50	PRSS8
1022	2023	50	PTCH1
1022	2023	50	Phosphatase and Tensin homolog
1022	2023	50	PTPN11
1022	2023	50	RAD50
1022	2023	50	RAD51
1022	2023	50	RAD51B
1022	2023	50	RAD51C
1022	2023	50	RAD51D
1022	2023	50	RAD52
1022	2023	50	RAD54L
1022	2023	50	RAF1
1022	2023	50	RARA
1022	2023	50	13q14(RB1)V
1022	2023	50	REL
1022	2023	50	RET
1022	2023	50	RICTOR
1022	2023	50	RNF43
1022	2023	50	ROS1
1022	2023	50	RPA1
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1022	2023	50	RUNX1
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1022	2023	50	SF3B1
1022	2023	50	SH2B3
1022	2023	50	SMAD2
1022	2023	50	SMAD4
1022	2023	50	SMARCA4
1022	2023	50	SMARCB1



1022	2023	50	SMARCD1
1022	2023	50	SMO
1022	2023	50	SOCS1
1022	2023	50	SOX10
1022	2023	50	SOX2
1022	2023	50	SPEN
1022	2023	50	SPOP
1022	2023	50	SRC
1022	2023	50	STAG2
1022	2023	50	STAT4
1022	2023	50	STK11
1022	2023	50	SUFU
1022	2023	50	SYK
1022	2023	50	TBX3
1022	2023	50	TET2
1022	2023	50	TGFBR2
1022	2023	50	TIPARP
1022	2023	50	TMPRSS2
1022	2023	50	TNFAIP3
1022	2023	50	TNFRSF14
1022	2023	50	TOP1
1022	2023	50	TP53
1022	2023	50	TRRAP
1022	2023	50	Tuberous sclerosis complex 1 gene
1022	2023	50	Tuberous sclerosis complex 2 gene
1022	2023	50	TSHR
1022	2023	50	Von Hippel-Lindau
1022	2023	50	WISP3
1022	2023	50	WT1
1022	2023	50	XPO1
1022	2023	50	XRCC3
1022	2023	50	ZNF217
1022	2023	50	ZNF703
1022		50	AKT3
1022		50	CDC73
1022		50	DDR2
1022		50	IKBKE
1022		50	MCL1
1022		50	MDM4

1022		50	NTRK1
1022		50	PARP1
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1023	2024	60	AKT2
1023	2024	60	AKT3
1023	2024	60	ALK
1023	2024	60	ALOX12B
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1023	2024	60	APCDD1
1023	2024	60	AR
1023	2024	60	ARAF
1023	2024	60	ARFRP1
1023	2024	60	ARID1A
1023	2024	60	ARID2
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1023	2024	60	ATR
1023	2024	60	ATRX
1023	2024	60	AURKA
1023	2024	60	AURKB
1023	2024	60	AXL
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1023	2024	60	BAP1
1023	2024	60	BARD1
1023	2024	60	BCL-2
1023	2024	60	BCL2L2
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1023	2024	60	BTG1
1023	2024	60	BTK
1023	2024	60	C17orf39
1023	2024	60	CARD11
1023	2024	60	CASP8
1023	2024	60	CBFB

1023	2024	60	CBL
1023	2024	60	CCND2
1023	2024	60	CCND3
1023	2024	60	CCNE1
1023	2024	60	CD79A
1023	2024	60	CD79B
1023	2024	60	CDC73
1023	2024	60	CDH1
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1023	2024	60	Cyclin dependent kinase-4
1023	2024	60	CDK6
1023	2024	60	CDK8
1023	2024	60	CDKN1B
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1023	2024	60	CDKN2B
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1023	2024	60	CCAT/enhancer binding protein (CEBPA)
1023	2024	60	CHEK1
1023	2024	60	CHEK2
1023	2024	60	CHUK
1023	2024	60	CIC
1023	2024	60	CRBN
1023	2024	60	CREBBP
1023	2024	60	CRKL
1023	2024	60	CRLF2
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1023	2024	60	CTNNB1
1023	2024	60	CUL4A
1023	2024	60	CUL4B
1023	2024	60	CYP17A1
1023	2024	60	DAXX
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1023	2024	60	DIS3
1023	2024	60	DNMT3A
1023	2024	60	DOT1L
1023	2024	60	Epidermal Growth Factor Receptor
1023	2024	60	EMSY

1023	2024	60	EP300
1023	2024	60	EPHA3
1023	2024	60	EPHA5
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1023	2024	60	ERBB2
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1023	2024	60	ERG
1023	2024	60	Estrogen receptor 1
1023	2024	60	ETV1
1023	2024	60	ETV4
1023	2024	60	ETV5
1023	2024	60	ETV6
1023	2024	60	EWSR1
1023	2024	60	EZH2
1023	2024	60	FAM123B(WTX)
1023	2024	60	FAM46C
1023	2024	60	FANCA
1023	2024	60	FANCC
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1023	2024	60	FANCE
1023	2024	60	FANCF
1023	2024	60	FANCG
1023	2024	60	FANCI
1023	2024	60	FANCL
1023	2024	60	FANCM
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1023	2024	60	FBXW7
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1023	2024	60	FGF12
1023	2024	60	FGF14
1023	2024	60	Fibroblast growth factor 19
1023	2024	60	Fibroblast growth factor 23
1023	2024	60	Fibroblast growth factor 3
1023	2024	60	FGF4
1023	2024	60	FGF6
1023	2024	60	FGF7
1023	2024	60	Fibroblast growth receptor 1
1023	2024	60	Fibroblast growth receptor 2
1023	2024	60	Fibroblast growth receptor 3

1023	2024	60	Fibroblast growth receptor 4
1023	2024	60	FLT1
1023	2024	60	Fms-like tyrosine kinase 3 (FLT3)
1023	2024	60	FLT4
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1023	2024	60	GATA1
1023	2024	60	GATA2
1023	2024	60	GATA3
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1023	2024	60	GNAS
1023	2024	60	GPR124
1023	2024	60	GRIN2A
1023	2024	60	GSK3B
1023	2024	60	Hepatocyte growth factor
1023	2024	60	HLA-A
1023	2024	60	HRAS
1023	2024	60	IDH1
1023	2024	60	IDH2
1023	2024	60	Insulin-like growth factor 1
1023	2024	60	Insulin growth factor 1 receptor
1023	2024	60	Insulin-like growth factor 2, also somatomedin A
1023	2024	60	IKBKE
1023	2024	60	IKZF1
1023	2024	60	IL7R
1023	2024	60	INHBA
1023	2024	60	IRF4
1023	2024	60	IRS2
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1023	2024	60	JAK2
1023	2024	60	JAK3
1023	2024	60	JUN
1023	2024	60	KDM5A
1023	2024	60	KDM5C
1023	2024	60	KDM6A
1023	2024	60	KDR
1023	2024	60	KEAP1
1023	2024	60	KIT
1023	2024	60	KLHL6

1023	2024	60	KRAS
1023	2024	60	LMO1
1023	2024	60	LRP1B
1023	2024	60	MAP2K1
1023	2024	60	MAP2K2
1023	2024	60	MAP2K4
1023	2024	60	MAP3K1
1023	2024	60	MAP3K13
1023	2024	60	MCL1
1023	2024	60	MDM2
1023	2024	60	MDM4
1023	2024	60	MED12
1023	2024	60	MEF2B
1023	2024	60	MEN1
1023	2024	60	MET
1023	2024	60	Microphthalmia associated transcription factor
1023	2024	60	MLH1
1023	2024	60	MLL
1023	2024	60	MLL2
1023	2024	60	MPL
1023	2024	60	MRE11A
1023	2024	60	MSH2
1023	2024	60	MSH6
1023	2024	60	MTOR
1023	2024	60	MUTYH
1023	2024	60	MYC
1023	2024	60	MYCL1
1023	2024	60	MYCN
1023	2024	60	MYD88
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1023	2024	60	NCOR1
1023	2024	60	NF1
1023	2024	60	NF2
1023	2024	60	NFE2L2
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1023	2024	60	NKX2-1
1023	2024	60	NOTCH1
1023	2024	60	NOTCH2
1023	2024	60	NOTCH3
1023	2024	60	NOTCH4

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1023	2024	60	NSD1
1023	2024	60	NTRK1
1023	2024	60	NTRK2
1023	2024	60	NTRK3
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1023	2024	60	PARP1
1023	2024	60	PARP2
1023	2024	60	PARP3
1023	2024	60	PARP4
1023	2024	60	PAX5
1023	2024	60	PBRM1
1023	2024	60	PDGFRA
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1023	2024	60	PDK1
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1023	2024	60	PIK3C3
1023	2024	60	<i>PIK3CA</i>
1023	2024	60	PIK3CG
1023	2024	60	PIK3R1
1023	2024	60	PIK3R2
1023	2024	60	PMS2
1023	2024	60	PNRC1
1023	2024	60	PPP2R1A
1023	2024	60	PRDM1
1023	2024	60	PRKAR1A
1023	2024	60	PRKDC
1023	2024	60	PRSS8
1023	2024	60	PTCH1
1023	2024	60	Phosphatase and Tensin homolog
1023	2024	60	PTPN11
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1023	2024	60	RAD51
1023	2024	60	RAD51B
1023	2024	60	RAD51C
1023	2024	60	RAD51D

1023	2024	60	RAD52
1023	2024	60	RAD54L
1023	2024	60	RAF1
1023	2024	60	RARA
1023	2024	60	13q14(RB1)V
1023	2024	60	REL
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1023	2024	60	RPA1
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1023	2024	60	SOX10
1023	2024	60	SOX2
1023	2024	60	SPEN
1023	2024	60	SPOP
1023	2024	60	SRC
1023	2024	60	STAG2
1023	2024	60	STAT4
1023	2024	60	STK11
1023	2024	60	SUFU
1023	2024	60	SYK
1023	2024	60	TBX3
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1023	2024	60	TGFBR2
1023	2024	60	TIPARP
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1023	2024	60	TNFAIP3



1023	2024	60	TNFRSF14
1023	2024	60	TOP1
1023	2024	60	TP53
1023	2024	60	TRRAP
1023	2024	60	Tuberous sclerosis complex 1 gene
1023	2024	60	Tuberous sclerosis complex 2 gene
1023	2024	60	TSHR
1023	2024	60	Von Hippel-Lindau
1023	2024	60	WISP3
1023	2024	60	WT1
1023	2024	60	XPO1
1023	2024	60	XRCC3
1023	2024	60	ZNF217
1023	2024	60	ZNF703
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1030	2031	50	AKT1
1030	2031	50	AKT2
1030	2031	50	AKT3
1030	2031	50	ALK
1030	2031	50	ALOX12B
1030	2031	50	APC
1030	2031	50	APCDD1
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1030	2031	50	AURKB
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1030	2031	50	BAP1
1030	2031	50	BARD1
1030	2031	50	BCL-2

1030	2031	50	BCL2L2
1030	2031	50	BCL6
1030	2031	50	BCOR
1030	2031	50	BCORL1
1030	2031	50	BCR
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1030	2031	50	BRAF
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1030	2031	50	CBL
1030	2031	50	CCND1
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1030	2031	50	CCND3
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1030	2031	50	CD79B
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1030	2031	50	CDK12
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1030	2031	50	CDK6
1030	2031	50	CDK8
1030	2031	50	CDKN1B
1030	2031	50	CDKN2A
1030	2031	50	CDKN2B
1030	2031	50	CDKN2C
1030	2031	50	CCAT/enhancer binding protein (CEBPA)
1030	2031	50	CHEK1
1030	2031	50	CHEK2
1030	2031	50	CHUK
1030	2031	50	CIC
1030	2031	50	CRBN
1030	2031	50	CREBBP

1030	2031	50	CRKL
1030	2031	50	CRLF2
1030	2031	50	CSF1R
1030	2031	50	CTCF
1030	2031	50	CTNNA1
1030	2031	50	CTNNB1
1030	2031	50	CUL4A
1030	2031	50	CUL4B
1030	2031	50	CYP17A1
1030	2031	50	DAXX
1030	2031	50	DDR2
1030	2031	50	DIS3
1030	2031	50	DNMT3A
1030	2031	50	DOT1L
1030	2031	50	Epidermal Growth Factor Receptor
1030	2031	50	EMSY
1030	2031	50	EP300
1030	2031	50	EPHA3
1030	2031	50	EPHA5
1030	2031	50	EPHB1
1030	2031	50	ERBB2
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1030	2031	50	ERBB4
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1030	2031	50	ETV5
1030	2031	50	ETV6
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1030	2031	50	EZH2
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1030	2031	50	FAM46C
1030	2031	50	FANCA
1030	2031	50	FANCC
1030	2031	50	FANCD2
1030	2031	50	FANCE
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1030	2031	50	FGF14
1030	2031	50	Fibroblast growth factor 19
1030	2031	50	Fibroblast growth factor 23
1030	2031	50	Fibroblast growth factor 3
1030	2031	50	FGF4
1030	2031	50	FGF6
1030	2031	50	FGF7
1030	2031	50	Fibroblast growth receptor 1
1030	2031	50	Fibroblast growth receptor 2
1030	2031	50	Fibroblast growth receptor 3
1030	2031	50	Fibroblast growth receptor 4
1030	2031	50	FLT1
1030	2031	50	Fms-like tyrosine kinase 3 (FLT3)
1030	2031	50	FLT4
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1030	2031	50	GATA1
1030	2031	50	GATA2
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1030	2031	50	GPR124
1030	2031	50	GRIN2A
1030	2031	50	GSK3B
1030	2031	50	Hepatocyte growth factor
1030	2031	50	HLA-A
1030	2031	50	HRAS
1030	2031	50	IDH1
1030	2031	50	IDH2
1030	2031	50	Insulin-like growth factor 1
1030	2031	50	Insulin growth factor 1 receptor
1030	2031	50	Insulin-like growth factor 2, also somatomedin A
1030	2031	50	IKBKE
1030	2031	50	IKZF1

1030	2031	50	IL7R
1030	2031	50	INHBA
1030	2031	50	IRF4
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1030	2031	50	JAK1
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1030	2031	50	KDM5A
1030	2031	50	KDM5C
1030	2031	50	KDM6A
1030	2031	50	KDR
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1030	2031	50	KRAS
1030	2031	50	LMO1
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1030	2031	50	MAP2K1
1030	2031	50	MAP2K2
1030	2031	50	MAP2K4
1030	2031	50	MAP3K1
1030	2031	50	MAP3K13
1030	2031	50	MCL1
1030	2031	50	MDM2
1030	2031	50	MDM4
1030	2031	50	MED12
1030	2031	50	MEF2B
1030	2031	50	MEN1
1030	2031	50	MET
1030	2031	50	Microphthalmia associated transcription factor
1030	2031	50	MLH1
1030	2031	50	MLL
1030	2031	50	MLL2
1030	2031	50	MPL
1030	2031	50	MRE11A
1030	2031	50	MSH2
1030	2031	50	MSH6
1030	2031	50	MTOR
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1030	2031	50	MYC
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1030	2031	50	MYCN
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1030	2031	50	NF1
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1030	2031	50	NFKBIA
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1030	2031	50	NOTCH1
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1030	2031	50	NOTCH3
1030	2031	50	NOTCH4
1030	2031	50	Nucleophosmin (NPM1)
1030	2031	50	NRAS
1030	2031	50	NSD1
1030	2031	50	NTRK1
1030	2031	50	NTRK2
1030	2031	50	NTRK3
1030	2031	50	NUP93
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1030	2031	50	PARP4
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1030	2031	50	PIK3C2G
1030	2031	50	PIK3C3
1030	2031	50	PIK3CG
1030	2031	50	PIK3R1
1030	2031	50	PIK3R2

1030	2031	50	PMS2
1030	2031	50	PNRC1
1030	2031	50	PPP2R1A
1030	2031	50	PRDM1
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1030	2031	50	PRSS8
1030	2031	50	PTCH1
1030	2031	50	PTPN11
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1030	2031	50	RAD51
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1030	2031	50	RAD51D
1030	2031	50	RAD52
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1030	2031	50	SRC
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1030	2031	50	SUFU
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1030	2031	50	TBX3
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1030	2031	50	TSHR
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1030	2031	50	WISP3
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1032	2033	20	BARD1
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1032	2033	20	BCL2L2
1032	2033	20	BCL6
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1032	2033	20	BRCA2
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1032	2033	20	CDK6
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1032	2033	20	CDKN2A
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1032	2033	20	CDKN2C
1032	2033	20	CCAT/enhancer binding protein (CEBPA)
1032	2033	20	CHEK1
1032	2033	20	CHEK2
1032	2033	20	CHUK
1032	2033	20	CIC
1032	2033	20	CRBN
1032	2033	20	CREBBP
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1032	2033	20	EMSY
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1032	2033	20	ETV1

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1032	2033	20	ETV5
1032	2033	20	ETV6
1032	2033	20	EWSR1
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1032	2033	20	FAM46C
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1032	2033	20	FGF12
1032	2033	20	FGF14
1032	2033	20	Fibroblast growth factor 19
1032	2033	20	Fibroblast growth factor 23
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1032	2033	20	FGF4
1032	2033	20	FGF6
1032	2033	20	FGF7
1032	2033	20	Fibroblast growth receptor 1
1032	2033	20	Fibroblast growth receptor 2
1032	2033	20	Fibroblast growth receptor 3
1032	2033	20	Fibroblast growth receptor 4
1032	2033	20	FLT1
1032	2033	20	Fms-like tyrosine kinase 3 (FLT3)
1032	2033	20	FLT4
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1032	2033	20	GSK3B
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1032	2033	20	IDH1
1032	2033	20	IDH2
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1032	2033	20	Insulin growth factor 1 receptor
1032	2033	20	Insulin-like growth factor 2, also somatomedin A
1032	2033	20	IKBKE
1032	2033	20	IKZF1
1032	2033	20	IL7R
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1032	2033	20	LMO1
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1032	2033	20	MAP3K13
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1032	2033	20	SYK
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1032	2033	20	Tuberous sclerosis complex 2 gene
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1033	2034	70	CASP8
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1033	2034	70	CCND2
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1033	2034	70	Fibroblast growth factor 23
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1033	2034	70	Fibroblast growth receptor 2
1033	2034	70	Fibroblast growth receptor 3
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1033	2034	70	Fms-like tyrosine kinase 3 (FLT3)
1033	2034	70	FLT4
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1033	2034	70	Insulin-like growth factor 2, also somatomedin A
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1033	2034	70	MSH2
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1033	2034	70	SOX2
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1033	2034	70	STAT4
1033	2034	70	STK11
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1033	2034	70	SYK
1033	2034	70	TBX3
1033	2034	70	TET2
1033	2034	70	TGFBR2
1033	2034	70	TIPARP
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1033	2034	70	TNFAIP3
1033	2034	70	TNFRSF14
1033	2034	70	TOP1
1033	2034	70	TP53
1033	2034	70	TRRAP
1033	2034	70	Tuberous sclerosis complex 1 gene
1033	2034	70	Tuberous sclerosis complex 2 gene
1033	2034	70	TSHR
1033	2034	70	Von Hippel-Lindau
1033	2034	70	WISP3
1033	2034	70	WT1
1033	2034	70	XPO1
1033	2034	70	XRCC3
1033	2034	70	ZNF217
1033	2034	70	ZNF703
1057	2059	40	ABL1
1057	2059	40	AKT1
1057	2059	40	AKT2
1057	2059	40	AKT3
1057	2059	40	ALK
1057	2059	40	ALOX12B
1057	2059	40	APC
1057	2059	40	APCDD1
1057	2059	40	AR
1057	2059	40	ARAF
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1057	2059	40	ARID1A
1057	2059	40	ARID2
1057	2059	40	ASXL1
1057	2059	40	ATM
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1057	2059	40	AURKB
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1057	2059	40	BARD1
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1057	2059	40	BCL2L2
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1057	2059	40	BCR
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1057	2059	40	BRAF
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1057	2059	40	BRCA2
1057	2059	40	BRIP1
1057	2059	40	BTG1
1057	2059	40	BTK
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1057	2059	40	CARD11
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1057	2059	40	CDK6
1057	2059	40	CDK8
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1057	2059	40	CDKN2A
1057	2059	40	CDKN2B
1057	2059	40	CDKN2C
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1057	2059	40	CHEK1
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1057	2059	40	CRLF2
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1057	2059	40	CUL4A
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1057	2059	40	CYP17A1
1057	2059	40	DAXX
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1057	2059	40	EMSY
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1057	2059	40	ERBB2
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1057	2059	40	ERG
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1057	2059	40	ETV1
1057	2059	40	ETV4
1057	2059	40	ETV5
1057	2059	40	ETV6
1057	2059	40	EWSR1
1057	2059	40	EZH2
1057	2059	40	FAM123B(WTX)
1057	2059	40	FAM46C
1057	2059	40	FANCA
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1057	2059	40	FGF10
1057	2059	40	FGF12
1057	2059	40	FGF14
1057	2059	40	Fibroblast growth factor 19
1057	2059	40	Fibroblast growth factor 23
1057	2059	40	Fibroblast growth factor 3
1057	2059	40	FGF4
1057	2059	40	FGF6
1057	2059	40	FGF7
1057	2059	40	Fibroblast growth receptor 1
1057	2059	40	Fibroblast growth receptor 2
1057	2059	40	Fibroblast growth receptor 3
1057	2059	40	Fibroblast growth receptor 4
1057	2059	40	FLT1
1057	2059	40	Fms-like tyrosine kinase 3 (FLT3)
1057	2059	40	FLT4
1057	2059	40	FOXL2
1057	2059	40	GATA1
1057	2059	40	GATA2
1057	2059	40	GATA3
1057	2059	40	GNA11
1057	2059	40	GNA13
1057	2059	40	GNAQ
1057	2059	40	GNAS
1057	2059	40	GPR124
1057	2059	40	GRIN2A
1057	2059	40	GSK3B
1057	2059	40	Hepatocyte growth factor
1057	2059	40	HLA-A
1057	2059	40	HRAS
1057	2059	40	IDH1
1057	2059	40	IDH2
1057	2059	40	Insulin-like growth factor 1
1057	2059	40	Insulin growth factor 1 receptor
1057	2059	40	Insulin-like growth factor 2, also somatomedin A
1057	2059	40	IKBKE
1057	2059	40	IKZF1
1057	2059	40	IL7R

1057	2059	40	INHBA
1057	2059	40	IRF4
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1057	2059	40	KDM5A
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1057	2059	40	KDM6A
1057	2059	40	KDR
1057	2059	40	KEAP1
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1057	2059	40	KLHL6
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1057	2059	40	MAP2K2
1057	2059	40	MAP2K4
1057	2059	40	MAP3K1
1057	2059	40	MAP3K13
1057	2059	40	MCL1
1057	2059	40	MDM2
1057	2059	40	MDM4
1057	2059	40	MED12
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1057	2059	40	MEN1
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1057	2059	40	MLH1
1057	2059	40	MLL
1057	2059	40	MLL2
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1057	2059	40	MRE11A
1057	2059	40	MSH2
1057	2059	40	MSH6
1057	2059	40	MTOR
1057	2059	40	MUTYH
1057	2059	40	MYC

1057	2059	40	MYCL1
1057	2059	40	MYCN
1057	2059	40	MYD88
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1057	2059	40	NBN
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1057	2059	40	NFKBIA
1057	2059	40	NKX2-1
1057	2059	40	NOTCH1
1057	2059	40	NOTCH2
1057	2059	40	NOTCH3
1057	2059	40	NOTCH4
1057	2059	40	Nucleophosmin (NPM1)
1057	2059	40	NRAS
1057	2059	40	NSD1
1057	2059	40	NTRK1
1057	2059	40	NTRK2
1057	2059	40	NTRK3
1057	2059	40	NUP93
1057	2059	40	PAK3
1057	2059	40	PAK7
1057	2059	40	PALB2
1057	2059	40	PARP1
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1057	2059	40	PARP4
1057	2059	40	PAX5
1057	2059	40	PBRM1
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1057	2059	40	PIK3C2G
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1057	2059	40	PIK3CG
1057	2059	40	PIK3R1
1057	2059	40	PIK3R2
1057	2059	40	PMS2
1057	2059	40	PNRC1

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1057	2059	40	PRDM1
1057	2059	40	PRKAR1A
1057	2059	40	PRKDC
1057	2059	40	PRSS8
1057	2059	40	PTCH1
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1057	2059	40	PTPN11
1057	2059	40	RAD50
1057	2059	40	RAD51
1057	2059	40	RAD51B
1057	2059	40	RAD51C
1057	2059	40	RAD51D
1057	2059	40	RAD52
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1057	2059	40	RAF1
1057	2059	40	RARA
1057	2059	40	13q14(RB1)V
1057	2059	40	REL
1057	2059	40	RET
1057	2059	40	RICTOR
1057	2059	40	RNF43
1057	2059	40	ROS1
1057	2059	40	RPA1
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1057	2059	40	RUNX1
1057	2059	40	RUNX1T1
1057	2059	40	SETD2
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1057	2059	40	SH2B3
1057	2059	40	SMAD2
1057	2059	40	SMAD4
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1057	2059	40	SOCS1
1057	2059	40	SOX10
1057	2059	40	SOX2
1057	2059	40	SPEN

1057	2059	40	SPOP
1057	2059	40	SRC
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1057	2059	40	STAT4
1057	2059	40	STK11
1057	2059	40	SUFU
1057	2059	40	SYK
1057	2059	40	TBX3
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1057	2059	40	TNFRSF14
1057	2059	40	TOP1
1057	2059	40	TP53
1057	2059	40	Tuberous sclerosis complex 1 gene
1057	2059	40	Tuberous sclerosis complex 2 gene
1057	2059	40	TSHR
1057	2059	40	Von Hippel-Lindau
1057	2059	40	WISP3
1057	2059	40	WT1
1057	2059	40	XPO1
1057	2059	40	XRCC3
1057	2059	40	ZNF217
1057	2059	40	ZNF703
1057		40	TRRAP
1057		40	Epidermal Growth Factor Receptor
1058	2060	90	ABL1
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1058	2060	90	AKT3
1058	2060	90	ALK
1058	2060	90	APC
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1058	2060	90	ARID1A
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1058	2060	90	BRAF
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1058	2060	90	CD79A
1058	2060	90	CD79B
1058	2060	90	CDH1
1058	2060	90	CDH2
1058	2060	90	CDH20
1058	2060	90	CDH5
1058	2060	90	Cyclin dependent kinase-4
1058	2060	90	CDK6
1058	2060	90	CDK8
1058	2060	90	CDKN2A
1058	2060	90	CDKN2B
1058	2060	90	CDKN2C
1058	2060	90	CCAT/enhancer binding protein (CEBPA)
1058	2060	90	CHEK1
1058	2060	90	CHEK2
1058	2060	90	CRKL
1058	2060	90	CRLF2
1058	2060	90	CTNNB1
1058	2060	90	DDR2

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1058	2060	90	DOT1L
1058	2060	90	Epidermal Growth Factor Receptor
1058	2060	90	EPHA3
1058	2060	90	EPHA5
1058	2060	90	EPHA6
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1058	2060	90	ERBB3
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1058	2060	90	ERCC2
1058	2060	90	ERG
1058	2060	90	Estrogen receptor 1
1058	2060	90	ETV1
1058	2060	90	ETV4
1058	2060	90	ETV5
1058	2060	90	ETV6
1058	2060	90	EWSR1
1058	2060	90	EZH2
1058	2060	90	FANCA
1058	2060	90	FBXW7
1058	2060	90	Fibroblast growth receptor 1
1058	2060	90	Fibroblast growth receptor 2
1058	2060	90	Fibroblast growth receptor 3
1058	2060	90	Fibroblast growth receptor 4
1058	2060	90	FLT1
1058	2060	90	Fms-like tyrosine kinase 3 (FLT3)
1058	2060	90	FLT4
1058	2060	90	FOXP4
1058	2060	90	GATA1
1058	2060	90	GNA11
1058	2060	90	GNAQ
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1058	2060	90	GPR124
1058	2060	90	GUCY1A2
1058	2060	90	HOXA3
1058	2060	90	HRAS



1058	2060	90	HSP90AA1
1058	2060	90	IDH1
1058	2060	90	IDH2
1058	2060	90	Insulin growth factor 1 receptor
1058	2060	90	IGF2R
1058	2060	90	IKBKE
1058	2060	90	IKZF1
1058	2060	90	INHBA
1058	2060	90	INSR
1058	2060	90	IRS2
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1058	2060	90	JAK3
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1058	2060	90	KDM6A
1058	2060	90	KDR
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1058	2060	90	KRAS
1058	2060	90	LRP1B
1058	2060	90	LRP6
1058	2060	90	LTK
1058	2060	90	MAP2K1
1058	2060	90	MAP2K2
1058	2060	90	MAP2K4
1058	2060	90	MCL1
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1058	2060	90	MEN1
1058	2060	90	MET
1058	2060	90	Microphthalmia associated transcription factor
1058	2060	90	MLH1
1058	2060	90	MLL
1058	2060	90	MPL
1058	2060	90	MRE11A
1058	2060	90	MSH2
1058	2060	90	MSH6
1058	2060	90	MTOR
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1058	2060	90	MYC
1058	2060	90	MYCL1

1058	2060	90	MYCN
1058	2060	90	NF1
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1058	2060	90	NKX2-1
1058	2060	90	NOTCH1
1058	2060	90	Nucleophosmin (NPM1)
1058	2060	90	NRAS
1058	2060	90	NTRK1
1058	2060	90	NTRK2
1058	2060	90	NTRK3
1058	2060	90	PAK3
1058	2060	90	PAX5
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1058	2060	90	PIK3CG
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1058	2060	90	PKHD1
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1058	2060	90	Phosphatase and Tensin homolog
1058	2060	90	PTPN11
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1058	2060	90	RAF1
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1058	2060	90	13q14(RB1)V
1058	2060	90	RET
1058	2060	90	RICTOR
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1058	2060	90	RUNX1
1058	2060	90	SMAD2
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1058	2060	90	SMARCB1
1058	2060	90	SMO
1058	2060	90	SOX10
1058	2060	90	SOX2

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1058	2060	90	STK11
1058	2060	90	SUFU
1058	2060	90	TBX22
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1058	2060	90	TGFBR2
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1058	2060	90	TNKS2
1058	2060	90	TOP1
1058	2060	90	TP53
1058	2060	90	Tuberous sclerosis complex 1 gene
1058	2060	90	Tuberous sclerosis complex 2 gene
1058	2060	90	USP9X
1058	2060	90	Von Hippel-Lindau
1058	2060	90	WT1
1059	2061	20	ABL1
1059	2061	20	ABL2
1059	2061	20	AKT1
1059	2061	20	AKT2
1059	2061	20	AKT3
1059	2061	20	ALK
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1059	2061	20	BCL-2
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1059	2061	20	BCL6

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1059	2061	20	BRAF
1059	2061	20	BRCA1
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1059	2061	20	CD79A
1059	2061	20	CD79B
1059	2061	20	CDH1
1059	2061	20	CDH2
1059	2061	20	CDH20
1059	2061	20	CDH5
1059	2061	20	Cyclin dependent kinase-4
1059	2061	20	CDK6
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1059	2061	20	CDKN2A
1059	2061	20	CDKN2B
1059	2061	20	CDKN2C
1059	2061	20	CCAT/enhancer binding protein (CEBPA)
1059	2061	20	CHEK1
1059	2061	20	CHEK2
1059	2061	20	CRKL
1059	2061	20	CRLF2
1059	2061	20	CTNNB1
1059	2061	20	DDR2
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1059	2061	20	EPHA6
1059	2061	20	EPHA7
1059	2061	20	EPHB1
1059	2061	20	EPHB4
1059	2061	20	EPHB6

1059	2061	20	ERBB2
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1059	2061	20	ERBB4
1059	2061	20	ERCC2
1059	2061	20	ERG
1059	2061	20	Estrogen receptor 1
1059	2061	20	ETV1
1059	2061	20	ETV4
1059	2061	20	ETV5
1059	2061	20	ETV6
1059	2061	20	EWSR1
1059	2061	20	EZH2
1059	2061	20	FANCA
1059	2061	20	FBXW7
1059	2061	20	Fibroblast growth receptor 1
1059	2061	20	Fibroblast growth receptor 2
1059	2061	20	Fibroblast growth receptor 3
1059	2061	20	Fibroblast growth receptor 4
1059	2061	20	FLT1
1059	2061	20	Fms-like tyrosine kinase 3 (FLT3)
1059	2061	20	FLT4
1059	2061	20	FOXP4
1059	2061	20	GATA1
1059	2061	20	GNA11
1059	2061	20	GNAQ
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1059	2061	20	GPR124
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1059	2061	20	IDH1
1059	2061	20	IDH2
1059	2061	20	Insulin growth factor 1 receptor
1059	2061	20	IGF2R
1059	2061	20	IKBKE
1059	2061	20	IKZF1
1059	2061	20	INHBA
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1059	2061	20	JUN
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1059	2061	20	KDR
1059	2061	20	KIT
1059	2061	20	KRAS
1059	2061	20	LRP1B
1059	2061	20	LRP6
1059	2061	20	LTK
1059	2061	20	MAP2K1
1059	2061	20	MAP2K2
1059	2061	20	MAP2K4
1059	2061	20	MCL1
1059	2061	20	MDM2
1059	2061	20	MDM4
1059	2061	20	MEN1
1059	2061	20	MET
1059	2061	20	Microphthalmia associated transcription factor
1059	2061	20	MLH1
1059	2061	20	MLL
1059	2061	20	MPL
1059	2061	20	MRE11A
1059	2061	20	MSH2
1059	2061	20	MSH6
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1059	2061	20	MYC
1059	2061	20	MYCL1
1059	2061	20	MYCN
1059	2061	20	NF1
1059	2061	20	NF2
1059	2061	20	NKX2-1
1059	2061	20	NOTCH1
1059	2061	20	Nucleophosmin (NPM1)
1059	2061	20	NRAS
1059	2061	20	NTRK1
1059	2061	20	NTRK2
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1059	2061	20	PAK3
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1059	2061	20	PDGFRB
1059	2061	20	PHLPP2
1059	2061	20	PIK3CG
1059	2061	20	PIK3R1
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1059	2061	20	PLCG1
1059	2061	20	PRKDC
1059	2061	20	PTCH1
1059	2061	20	PTCH2
1059	2061	20	Phosphatase and Tensin homolog
1059	2061	20	PTPN11
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1059	2061	20	RAF1
1059	2061	20	RARA
1059	2061	20	13q14(RB1)V
1059	2061	20	RET
1059	2061	20	RICTOR
1059	2061	20	RPTOR
1059	2061	20	RUNX1
1059	2061	20	SMAD2
1059	2061	20	SMAD3
1059	2061	20	SMAD4
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1059	2061	20	SMARCB1
1059	2061	20	SMO
1059	2061	20	SOX10
1059	2061	20	SOX2
1059	2061	20	SRC
1059	2061	20	STAT3
1059	2061	20	STK11
1059	2061	20	SUFU
1059	2061	20	TBX22
1059	2061	20	TET2
1059	2061	20	TGFBR2
1059	2061	20	TMPRSS2
1059	2061	20	TNFAIP3
1059	2061	20	TNKS
1059	2061	20	TNKS2

1059	2061	20	TOP1
1059	2061	20	TP53
1059	2061	20	Tuberous sclerosis complex 1 gene
1059	2061	20	Tuberous sclerosis complex 2 gene
1059	2061	20	USP9X
1059	2061	20	Von Hippel-Lindau
1059	2061	20	WT1
1060	2062	40	ABL1
1060	2062	40	AKT1
1060	2062	40	AKT2
1060	2062	40	AKT3
1060	2062	40	ALK
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1060	2062	40	ATR
1060	2062	40	ATRX
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1060	2062	40	BARD1
1060	2062	40	BCL-2
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1060	2062	40	BCR
1060	2062	40	BLM
1060	2062	40	BRAF
1060	2062	40	BRCA1



1060	2062	40	BRCA2
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1060	2062	40	BTG1
1060	2062	40	BTK
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1060	2062	40	CDK12
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1060	2062	40	CDK6
1060	2062	40	CDK8
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1060	2062	40	CDKN2A
1060	2062	40	CDKN2B
1060	2062	40	CDKN2C
1060	2062	40	CCAT/enhancer binding protein (CEBPA)
1060	2062	40	CHEK1
1060	2062	40	CHEK2
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1060	2062	40	CTNNB1
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1060	2062	40	CYP17A1
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1060	2062	40	DDR2
1060	2062	40	DIS3
1060	2062	40	DNMT3A
1060	2062	40	DOT1L
1060	2062	40	Epidermal Growth Factor Receptor
1060	2062	40	EMSY
1060	2062	40	EP300
1060	2062	40	EPHA3
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1060	2062	40	EZH2
1060	2062	40	FAM123B(WTX)
1060	2062	40	FAM46C
1060	2062	40	FANCA
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1060	2062	40	FANCE
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1060	2062	40	FANCL
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1060	2062	40	FGF10
1060	2062	40	FGF12
1060	2062	40	FGF14
1060	2062	40	Fibroblast growth factor 19
1060	2062	40	Fibroblast growth factor 23

1060	2062	40	Fibroblast growth factor 3
1060	2062	40	FGF4
1060	2062	40	FGF6
1060	2062	40	FGF7
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1060	2062	40	Fibroblast growth receptor 2
1060	2062	40	Fibroblast growth receptor 3
1060	2062	40	Fibroblast growth receptor 4
1060	2062	40	FLT1
1060	2062	40	Fms-like tyrosine kinase 3 (FLT3)
1060	2062	40	FLT4
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1060	2062	40	GATA2
1060	2062	40	GATA3
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1060	2062	40	GNA13
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1060	2062	40	GNAS
1060	2062	40	GPR124
1060	2062	40	GRIN2A
1060	2062	40	GSK3B
1060	2062	40	Hepatocyte growth factor
1060	2062	40	HLA-A
1060	2062	40	HRAS
1060	2062	40	IDH1
1060	2062	40	IDH2
1060	2062	40	Insulin-like growth factor 1
1060	2062	40	Insulin growth factor 1 receptor
1060	2062	40	Insulin-like growth factor 2, also somatomedin A
1060	2062	40	IKBKE
1060	2062	40	IKZF1
1060	2062	40	IL7R
1060	2062	40	INHBA
1060	2062	40	IRF4
1060	2062	40	IRS2
1060	2062	40	JAK1
1060	2062	40	JAK2
1060	2062	40	JAK3
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1060	2062	40	KDM5A
1060	2062	40	KDM5C
1060	2062	40	KDM6A
1060	2062	40	KDR
1060	2062	40	KEAP1
1060	2062	40	KIT
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1060	2062	40	MEN1
1060	2062	40	MET
1060	2062	40	Microphthalmia associated transcription factor
1060	2062	40	MLH1
1060	2062	40	MLL
1060	2062	40	MLL2
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1060	2062	40	MRE11A
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1060	2062	40	NKX2-1
1060	2062	40	NOTCH1
1060	2062	40	NOTCH2
1060	2062	40	NOTCH3
1060	2062	40	NOTCH4
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1060	2062	40	NRAS
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1060	2062	40	NTRK1
1060	2062	40	NTRK2
1060	2062	40	NTRK3
1060	2062	40	NUP93
1060	2062	40	PAK3
1060	2062	40	PAK7
1060	2062	40	PALB2
1060	2062	40	PARP1
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1060	2062	40	PARP3
1060	2062	40	PARP4
1060	2062	40	PAX5
1060	2062	40	PDGFRA
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1060	2062	40	PPP2R1A
1060	2062	40	PRDM1
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1060	2062	40	Phosphatase and Tensin homolog
1060	2062	40	PTPN11
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1060	2062	40	RAD51C
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1060	2062	40	RAD52
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1060	2062	40	13q14(RB1)V
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1060	2062	40	RUNX1
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1060	2062	40	SETD2
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1060	2062	40	SH2B3
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1060	2062	40	SOX2
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1060	2062	40	SYK
1060	2062	40	TBX3
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1060	2062	40	TGFBR2
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1060	2062	40	TNFAIP3
1060	2062	40	TNFRSF14
1060	2062	40	TOP1
1060	2062	40	TRRAP
1060	2062	40	Tuberous sclerosis complex 1 gene
1060	2062	40	Tuberous sclerosis complex 2 gene
1060	2062	40	TSHR
1060	2062	40	Von Hippel-Lindau
1060	2062	40	WISP3
1060	2062	40	WT1
1060	2062	40	XPO1
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1060	2062	40	ZNF217
1060	2062	40	ZNF703
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1061	2063	90	BARD1
1061	2063	90	BCL-2

1061	2063	90	BCL2L2
1061	2063	90	BCL6
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1061	2063	90	BCORL1
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1061	2063	90	CDKN2B
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1061	2063	90	CHEK1
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1061	2063	90	CYP17A1
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1061	2063	90	DOT1L
1061	2063	90	Epidermal Growth Factor Receptor
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1061	2063	90	ERBB2
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1061	2063	90	ERBB4
1061	2063	90	ERG
1061	2063	90	Estrogen receptor 1
1061	2063	90	ETV1
1061	2063	90	ETV4
1061	2063	90	ETV5
1061	2063	90	ETV6
1061	2063	90	EWSR1
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1061	2063	90	FANCC
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1061	2063	90	FGF6
1061	2063	90	FGF7
1061	2063	90	Fibroblast growth receptor 2
1061	2063	90	Fibroblast growth receptor 3
1061	2063	90	Fibroblast growth receptor 4
1061	2063	90	FLT1
1061	2063	90	Fms-like tyrosine kinase 3 (FLT3)
1061	2063	90	FLT4
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1061	2063	90	GSK3B
1061	2063	90	Hepatocyte growth factor
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1061	2063	90	IDH1
1061	2063	90	IDH2
1061	2063	90	Insulin-like growth factor 1
1061	2063	90	Insulin growth factor 1 receptor
1061	2063	90	Insulin-like growth factor 2, also somatomedin A
1061	2063	90	IKBKE
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1061	2063	90	IL7R

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1061	2063	90	JAK3
1061	2063	90	JUN
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1061	2063	90	KDM5C
1061	2063	90	KDM6A
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1061	2063	90	MEN1
1061	2063	90	MET
1061	2063	90	Microphthalmia associated transcription factor
1061	2063	90	MLH1
1061	2063	90	MLL
1061	2063	90	MLL2
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1061	2063	90	MRE11A
1061	2063	90	MSH2
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1061	2063	90	MYCL1

1061	2063	90	MYCN
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1061	2063	90	NF1
1061	2063	90	NF2
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1061	2063	90	NOTCH3
1061	2063	90	NOTCH4
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1061	2063	90	NRAS
1061	2063	90	NSD1
1061	2063	90	NTRK1
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1061	2063	90	PARP4
1061	2063	90	PAX5
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1061	2063	90	PIK3R2
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1061	2063	90	PRKDC
1061	2063	90	PRSS8
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1061	2063	90	Phosphatase and Tensin homolog
1061	2063	90	RAD50
1061	2063	90	RAD51
1061	2063	90	RAD51B
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1061	2063	90	RAD52
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1063	2065	20	FGF7
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1063	2065	20	Fibroblast growth receptor 2
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1066	2068	50	CD79A
1066	2068	50	CD79B
1066	2068	50	CDC73
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1066	2068	50	Cyclin dependent kinase-4
1066	2068	50	CDK6
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1066	2068	50	CDKN2C
1066	2068	50	CCAT/enhancer binding protein (CEBPA)
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1066	2068	50	EP300
1066	2068	50	EPHA3
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1066	2068	50	Fibroblast growth factor 23
1066	2068	50	FGF6
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1066	2068	50	Fibroblast growth receptor 2
1066	2068	50	Fibroblast growth receptor 3
1066	2068	50	Fibroblast growth receptor 4
1066	2068	50	FLT1
1066	2068	50	Fms-like tyrosine kinase 3 (FLT3)
1066	2068	50	FLT4
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1066	2068	50	GATA3
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1066	2068	50	GNAQ
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1066	2068	50	GSK3B
1066	2068	50	Hepatocyte growth factor
1066	2068	50	HLA-A

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1066	2068	50	IDH2
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1066	2068	50	Insulin growth factor 1 receptor
1066	2068	50	Insulin-like growth factor 2, also somatomedin A
1066	2068	50	IKZF1
1066	2068	50	IL7R
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1066	2068	50	JAK3
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1066	2068	50	KDM6A
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1066	2068	50	KLHL6
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1066	2068	50	MAP2K4
1066	2068	50	MAP3K1
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1066	2068	50	MRE11A

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1066	2068	50	NTRK3
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1066	2068	50	PMS2
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1066	2068	50	PPP2R1A
1066	2068	50	PRDM1
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1066	2068	50	PRKDC
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1066	2068	50	PTPN11
1066	2068	50	RAD50
1066	2068	50	RAD51
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1066	2068	50	Tuberous sclerosis complex 1 gene
1066	2068	50	Tuberous sclerosis complex 2 gene
1066	2068	50	TSHR
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1066	2068	50	WISP3
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1067	2070	80	APCDD1
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1067	2070	80	ASXL1
1067	2070	80	ATM
1067	2070	80	ATR
1067	2070	80	ATRX
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1067	2070	80	AURKB
1067	2070	80	AXL
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1067	2070	80	BAP1
1067	2070	80	BARD1
1067	2070	80	BCL-2
1067	2070	80	BCL2L2
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1067	2070	80	CDH1
1067	2070	80	CDK12
1067	2070	80	Cyclin dependent kinase-4

1067	2070	80	CDK6
1067	2070	80	CDK8
1067	2070	80	CDKN1B
1067	2070	80	CDKN2A
1067	2070	80	CDKN2B
1067	2070	80	CDKN2C
1067	2070	80	CCAT/enhancer binding protein (CEBPA)
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1067	2070	80	CHUK
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1067	2070	80	DOT1L
1067	2070	80	Epidermal Growth Factor Receptor
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1067	2070	80	Estrogen receptor 1
1067	2070	80	ETV1
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1067	2070	80	ETV5
1067	2070	80	ETV6
1067	2070	80	EWSR1
1067	2070	80	EZH2
1067	2070	80	FAM123B(WTX)
1067	2070	80	FAM46C
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1067	2070	80	FANCC
1067	2070	80	FANCD2
1067	2070	80	FANCE
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1067	2070	80	FGF12
1067	2070	80	FGF14
1067	2070	80	Fibroblast growth factor 19
1067	2070	80	Fibroblast growth factor 23
1067	2070	80	Fibroblast growth factor 3
1067	2070	80	FGF4
1067	2070	80	FGF6
1067	2070	80	FGF7
1067	2070	80	Fibroblast growth receptor 1
1067	2070	80	Fibroblast growth receptor 2
1067	2070	80	Fibroblast growth receptor 3
1067	2070	80	Fibroblast growth receptor 4
1067	2070	80	FLT1
1067	2070	80	Fms-like tyrosine kinase 3 (FLT3)
1067	2070	80	FLT4
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1067	2070	80	GATA1
1067	2070	80	GATA2
1067	2070	80	GATA3
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1067	2070	80	GRIN2A
1067	2070	80	GSK3B
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1067	2070	80	HLA-A
1067	2070	80	HRAS
1067	2070	80	IDH1
1067	2070	80	IDH2
1067	2070	80	Insulin-like growth factor 1
1067	2070	80	Insulin growth factor 1 receptor
1067	2070	80	Insulin-like growth factor 2, also somatomedin A
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1067	2070	80	IL7R
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1067	2070	80	KDM5C
1067	2070	80	KDM6A
1067	2070	80	KDR
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1067	2070	80	KRAS
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1067	2070	80	MAP2K1
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1067	2070	80	MDM2
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1067	2070	80	MED12
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1067	2070	80	MEN1
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1067	2070	80	Microphthalmia associated transcription factor
1067	2070	80	MLH1
1067	2070	80	MLL
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1067	2070	80	MSH2
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1067	2070	80	NOTCH3
1067	2070	80	NOTCH4
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1067	2070	80	NRAS
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1067	2070	80	PIK3C3
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1067	2070	80	PTCH1
1067	2070	80	Phosphatase and Tensin homolog
1067	2070	80	PTPN11
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1067	2070	80	RAD52
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1067	2070	80	SOX2
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1067	2070	80	STAT4
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1067	2070	80	SUFU
1067	2070	80	SYK
1067	2070	80	TBX3
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1067	2070	80	TP53
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1067	2070	80	Tuberous sclerosis complex 2 gene
1067	2070	80	TSHR
1067	2070	80	Von Hippel-Lindau
1067	2070	80	WISP3
1067	2070	80	WT1

1067	2070	80	XPO1
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1067	2070	80	ZNF217
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1068	2071	30	APC
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1068	2071	30	BCL-2
1068	2071	30	BCL2L2
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1068	2071	30	Cyclin dependent kinase-4
1068	2071	30	CDK6
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1068	2071	30	CDKN2A
1068	2071	30	CDKN2B
1068	2071	30	CDKN2C
1068	2071	30	CCAT/enhancer binding protein (CEBPA)
1068	2071	30	CHEK1
1068	2071	30	CHEK2
1068	2071	30	CHUK
1068	2071	30	CIC
1068	2071	30	CRBN
1068	2071	30	CREBBP
1068	2071	30	CRKL
1068	2071	30	CRLF2
1068	2071	30	CSF1R
1068	2071	30	CTCF
1068	2071	30	CTNNA1
1068	2071	30	CTNNB1
1068	2071	30	CUL4A
1068	2071	30	CUL4B
1068	2071	30	CYP17A1
1068	2071	30	DAXX
1068	2071	30	DDR2
1068	2071	30	DIS3
1068	2071	30	DNMT3A

1068	2071	30	DOT1L
1068	2071	30	Epidermal Growth Factor Receptor
1068	2071	30	EMSY
1068	2071	30	EP300
1068	2071	30	EPHA3
1068	2071	30	EPHA5
1068	2071	30	EPHB1
1068	2071	30	ERBB2
1068	2071	30	ERBB3
1068	2071	30	ERBB4
1068	2071	30	ERG
1068	2071	30	Estrogen receptor 1
1068	2071	30	ETV1
1068	2071	30	ETV4
1068	2071	30	ETV5
1068	2071	30	ETV6
1068	2071	30	EWSR1
1068	2071	30	EZH2
1068	2071	30	FAM123B(WTX)
1068	2071	30	FAM46C
1068	2071	30	FANCA
1068	2071	30	FANCC
1068	2071	30	FANCD2
1068	2071	30	FANCE
1068	2071	30	FANCF
1068	2071	30	FANCG
1068	2071	30	FANCI
1068	2071	30	FANCL
1068	2071	30	FANCM
1068	2071	30	FAT3
1068	2071	30	FBXW7
1068	2071	30	FGF10
1068	2071	30	FGF12
1068	2071	30	FGF14
1068	2071	30	Fibroblast growth factor 19
1068	2071	30	Fibroblast growth factor 23
1068	2071	30	Fibroblast growth factor 3
1068	2071	30	FGF4
1068	2071	30	FGF6
1068	2071	30	FGF7

1068	2071	30	Fibroblast growth receptor 1
1068	2071	30	Fibroblast growth receptor 2
1068	2071	30	Fibroblast growth receptor 3
1068	2071	30	Fibroblast growth receptor 4
1068	2071	30	FLT1
1068	2071	30	Fms-like tyrosine kinase 3 (FLT3)
1068	2071	30	FLT4
1068	2071	30	FOXL2
1068	2071	30	GATA1
1068	2071	30	GATA2
1068	2071	30	GATA3
1068	2071	30	GNA11
1068	2071	30	GNA13
1068	2071	30	GNAQ
1068	2071	30	GNAS
1068	2071	30	GPR124
1068	2071	30	GRIN2A
1068	2071	30	GSK3B
1068	2071	30	Hepatocyte growth factor
1068	2071	30	HLA-A
1068	2071	30	HRAS
1068	2071	30	IDH1
1068	2071	30	IDH2
1068	2071	30	Insulin-like growth factor 1
1068	2071	30	Insulin growth factor 1 receptor
1068	2071	30	Insulin-like growth factor 2, also somatomedin A
1068	2071	30	IKBKE
1068	2071	30	IKZF1
1068	2071	30	IL7R
1068	2071	30	INHBA
1068	2071	30	IRF4
1068	2071	30	IRS2
1068	2071	30	JAK1
1068	2071	30	JAK2
1068	2071	30	JAK3
1068	2071	30	JUN
1068	2071	30	KDM5A
1068	2071	30	KDM5C
1068	2071	30	KDM6A
1068	2071	30	KDR

1068	2071	30	KEAP1
1068	2071	30	KIT
1068	2071	30	KLHL6
1068	2071	30	KRAS
1068	2071	30	LMO1
1068	2071	30	LRP1B
1068	2071	30	MAP2K1
1068	2071	30	MAP2K2
1068	2071	30	MAP2K4
1068	2071	30	MAP3K13
1068	2071	30	MCL1
1068	2071	30	MDM2
1068	2071	30	MDM4
1068	2071	30	MED12
1068	2071	30	MEF2B
1068	2071	30	MEN1
1068	2071	30	MET
1068	2071	30	Microphthalmia associated transcription factor
1068	2071	30	MLH1
1068	2071	30	MLL
1068	2071	30	MLL2
1068	2071	30	MPL
1068	2071	30	MRE11A
1068	2071	30	MSH2
1068	2071	30	MSH6
1068	2071	30	MTOR
1068	2071	30	MUTYH
1068	2071	30	MYCL1
1068	2071	30	MYCN
1068	2071	30	MYD88
1068	2071	30	MYST3
1068	2071	30	NBN
1068	2071	30	NCOR1
1068	2071	30	NF1
1068	2071	30	NF2
1068	2071	30	NFE2L2
1068	2071	30	NFKBIA
1068	2071	30	NKX2-1
1068	2071	30	NOTCH1
1068	2071	30	NOTCH2

1068	2071	30	NOTCH3
1068	2071	30	NOTCH4
1068	2071	30	Nucleophosmin (NPM1)
1068	2071	30	NRAS
1068	2071	30	NSD1
1068	2071	30	NTRK1
1068	2071	30	NTRK2
1068	2071	30	NTRK3
1068	2071	30	NUP93
1068	2071	30	PAK3
1068	2071	30	PAK7
1068	2071	30	PALB2
1068	2071	30	PARP1
1068	2071	30	PARP2
1068	2071	30	PARP3
1068	2071	30	PARP4
1068	2071	30	PAX5
1068	2071	30	PBRM1
1068	2071	30	PDGFRA
1068	2071	30	PDGFRB
1068	2071	30	PDK1
1068	2071	30	PIK3C2G
1068	2071	30	PIK3C3
1068	2071	30	PIK3CG
1068	2071	30	PIK3R1
1068	2071	30	PIK3R2
1068	2071	30	PMS2
1068	2071	30	PNRC1
1068	2071	30	PPP2R1A
1068	2071	30	PRDM1
1068	2071	30	PRKAR1A
1068	2071	30	PRKDC
1068	2071	30	PRSS8
1068	2071	30	PTCH1
1068	2071	30	Phosphatase and Tensin homolog
1068	2071	30	PTPN11
1068	2071	30	RAD50
1068	2071	30	RAD51
1068	2071	30	RAD51B
1068	2071	30	RAD51C

1068	2071	30	RAD51D
1068	2071	30	RAD52
1068	2071	30	RAD54L
1068	2071	30	RAF1
1068	2071	30	RARA
1068	2071	30	13q14(RB1)V
1068	2071	30	REL
1068	2071	30	RET
1068	2071	30	RICTOR
1068	2071	30	RNF43
1068	2071	30	ROS1
1068	2071	30	RPA1
1068	2071	30	RPTOR
1068	2071	30	RUNX1
1068	2071	30	RUNX1T1
1068	2071	30	SETD2
1068	2071	30	SF3B1
1068	2071	30	SH2B3
1068	2071	30	SMAD2
1068	2071	30	SMAD4
1068	2071	30	SMARCA4
1068	2071	30	SMARCB1
1068	2071	30	SMARCD1
1068	2071	30	SMO
1068	2071	30	SOCS1
1068	2071	30	SOX10
1068	2071	30	SOX2
1068	2071	30	SPEN
1068	2071	30	SPOP
1068	2071	30	SRC
1068	2071	30	STAG2
1068	2071	30	STAT4
1068	2071	30	STK11
1068	2071	30	SUFU
1068	2071	30	SYK
1068	2071	30	TBX3
1068	2071	30	TET2
1068	2071	30	TGFBR2
1068	2071	30	TIPARP
1068	2071	30	TMPRSS2



1068	2071	30	TNFAIP3
1068	2071	30	TNFRSF14
1068	2071	30	TOP1
1068	2071	30	TP53
1068	2071	30	TRRAP
1068	2071	30	Tuberous sclerosis complex 1 gene
1068	2071	30	Tuberous sclerosis complex 2 gene
1068	2071	30	TSHR
1068	2071	30	Von Hippel-Lindau
1068	2071	30	WISP3
1068	2071	30	WT1
1068	2071	30	XPO1
1068	2071	30	XRCC3
1068	2071	30	ZNF217
1077	2080	70	ABL1
1077	2080	70	ABL2
1077	2080	70	AKT1
1077	2080	70	AKT2
1077	2080	70	AKT3
1077	2080	70	ALK
1077	2080	70	APC
1077	2080	70	AR
1077	2080	70	ARAF
1077	2080	70	ARFRP1
1077	2080	70	ARID1A
1077	2080	70	ATM
1077	2080	70	ATR
1077	2080	70	AURKA
1077	2080	70	AURKB
1077	2080	70	BAP1
1077	2080	70	BCL-2
1077	2080	70	BCL2A1
1077	2080	70	BCL2L1
1077	2080	70	BCL2L2
1077	2080	70	BCL6
1077	2080	70	BCR
1077	2080	70	BRAF
1077	2080	70	BRCA1
1077	2080	70	BRCA2

1077	2080	70	CARD11
1077	2080	70	CBL
1077	2080	70	CCND1
1077	2080	70	CCND2
1077	2080	70	CCND3
1077	2080	70	CCNE1
1077	2080	70	CD79A
1077	2080	70	CD79B
1077	2080	70	CDH1
1077	2080	70	CDH2
1077	2080	70	CDH20
1077	2080	70	CDH5
1077	2080	70	Cyclin dependent kinase-4
1077	2080	70	CDK6
1077	2080	70	CDK8
1077	2080	70	CDKN2A
1077	2080	70	CDKN2B
1077	2080	70	CDKN2C
1077	2080	70	CCAT/enhancer binding protein (CEBPA)
1077	2080	70	CHEK1
1077	2080	70	CHEK2
1077	2080	70	CRKL
1077	2080	70	CRLF2
1077	2080	70	CTNNB1
1077	2080	70	DDR2
1077	2080	70	DNMT3A
1077	2080	70	DOT1L
1077	2080	70	Epidermal Growth Factor Receptor
1077	2080	70	EPHA3
1077	2080	70	EPHA5
1077	2080	70	EPHA6
1077	2080	70	EPHA7
1077	2080	70	EPHB1
1077	2080	70	EPHB4
1077	2080	70	EPHB6
1077	2080	70	ERBB2
1077	2080	70	ERBB3
1077	2080	70	ERBB4
1077	2080	70	ERCC2

1077	2080	70	ERG
1077	2080	70	Estrogen receptor 1
1077	2080	70	ETV1
1077	2080	70	ETV4
1077	2080	70	ETV5
1077	2080	70	ETV6
1077	2080	70	EWSR1
1077	2080	70	EZH2
1077	2080	70	FANCA
1077	2080	70	FBXW7
1077	2080	70	Fibroblast growth receptor 1
1077	2080	70	Fibroblast growth receptor 3
1077	2080	70	Fibroblast growth receptor 4
1077	2080	70	FLT1
1077	2080	70	Fms-like tyrosine kinase 3 (FLT3)
1077	2080	70	FLT4
1077	2080	70	FOXP4
1077	2080	70	GATA1
1077	2080	70	GNA11
1077	2080	70	GNAQ
1077	2080	70	GNAS
1077	2080	70	GPR124
1077	2080	70	GUCY1A2
1077	2080	70	HOXA3
1077	2080	70	HRAS
1077	2080	70	HSP90AA1
1077	2080	70	IDH1
1077	2080	70	IDH2
1077	2080	70	Insulin growth factor 1 receptor
1077	2080	70	IGF2R
1077	2080	70	IKBKE
1077	2080	70	IKZF1
1077	2080	70	INHBA
1077	2080	70	INSR
1077	2080	70	IRS2
1077	2080	70	JAK1
1077	2080	70	JAK2
1077	2080	70	JAK3
1077	2080	70	JUN
1077	2080	70	KDM6A

1077	2080	70	KDR
1077	2080	70	KIT
1077	2080	70	KRAS
1077	2080	70	LRP1B
1077	2080	70	LRP6
1077	2080	70	LTK
1077	2080	70	MAP2K1
1077	2080	70	MAP2K2
1077	2080	70	MAP2K4
1077	2080	70	MCL1
1077	2080	70	MDM2
1077	2080	70	MDM4
1077	2080	70	MEN1
1077	2080	70	MET
1077	2080	70	Microphthalmia associated transcription factor
1077	2080	70	MLH1
1077	2080	70	MLL
1077	2080	70	MPL
1077	2080	70	MRE11A
1077	2080	70	MSH2
1077	2080	70	MSH6
1077	2080	70	MTOR
1077	2080	70	MUTYH
1077	2080	70	MYCL1
1077	2080	70	MYCN
1077	2080	70	NF1
1077	2080	70	NF2
1077	2080	70	NKX2-1
1077	2080	70	NOTCH1
1077	2080	70	Nucleophosmin (NPM1)
1077	2080	70	NRAS
1077	2080	70	NTRK1
1077	2080	70	NTRK2
1077	2080	70	NTRK3
1077	2080	70	PAK3
1077	2080	70	PAX5
1077	2080	70	PDGFRA
1077	2080	70	PDGFRB
1077	2080	70	PHLPP2
1077	2080	70	PIK3CG

1077	2080	70	PIK3R1
1077	2080	70	PKHD1
1077	2080	70	PLCG1
1077	2080	70	PRKDC
1077	2080	70	PTCH1
1077	2080	70	PTCH2
1077	2080	70	Phosphatase and Tensin homolog
1077	2080	70	PTPN11
1077	2080	70	PTPRD
1077	2080	70	RAF1
1077	2080	70	RARA
1077	2080	70	13q14(RB1)V
1077	2080	70	RET
1077	2080	70	RICTOR
1077	2080	70	RPTOR
1077	2080	70	RUNX1
1077	2080	70	SMAD2
1077	2080	70	SMAD3
1077	2080	70	SMAD4
1077	2080	70	SMARCA4
1077	2080	70	SMARCB1
1077	2080	70	SMO
1077	2080	70	SOX10
1077	2080	70	SOX2
1077	2080	70	SRC
1077	2080	70	STAT3
1077	2080	70	STK11
1077	2080	70	SUFU
1077	2080	70	TBX22
1077	2080	70	TET2
1077	2080	70	TGFBR2
1077	2080	70	TMPRSS2
1077	2080	70	TNFAIP3
1077	2080	70	TNKS
1077	2080	70	TNKS2
1077	2080	70	TOP1
1077	2080	70	Tuberous sclerosis complex 1 gene
1077	2080	70	Tuberous sclerosis complex 2 gene
1077	2080	70	USP9X

1077	2080	70	Von Hippel-Lindau
1077	2080	70	WT1
1077		70	Fibroblast growth receptor 2
1077		70	MYC
1078	2081	70	ABL1
1078	2081	70	ABL2
1078	2081	70	AKT1
1078	2081	70	AKT2
1078	2081	70	AKT3
1078	2081	70	ALK
1078	2081	70	APC
1078	2081	70	AR
1078	2081	70	ARAF
1078	2081	70	ARFRP1
1078	2081	70	ARID1A
1078	2081	70	ATM
1078	2081	70	ATR
1078	2081	70	AURKA
1078	2081	70	AURKB
1078	2081	70	BAP1
1078	2081	70	BCL-2
1078	2081	70	BCL2A1
1078	2081	70	BCL2L1
1078	2081	70	BCL2L2
1078	2081	70	BCL6
1078	2081	70	BCR
1078	2081	70	BRAF
1078	2081	70	BRCA1
1078	2081	70	BRCA2
1078	2081	70	CARD11
1078	2081	70	CBL
1078	2081	70	CCND1
1078	2081	70	CCND2
1078	2081	70	CCND3
1078	2081	70	CCNE1
1078	2081	70	CD79A
1078	2081	70	CD79B
1078	2081	70	CDH2
1078	2081	70	CDH20
1078	2081	70	CDH5

1078	2081	70	Cyclin dependent kinase-4
1078	2081	70	CDK6
1078	2081	70	CDK8
1078	2081	70	CDKN2A
1078	2081	70	CDKN2B
1078	2081	70	CDKN2C
1078	2081	70	CCAT/enhancer binding protein (CEBPA)
1078	2081	70	CHEK1
1078	2081	70	CHEK2
1078	2081	70	CRKL
1078	2081	70	CRLF2
1078	2081	70	CTNNB1
1078	2081	70	DDR2
1078	2081	70	DNMT3A
1078	2081	70	DOT1L
1078	2081	70	Epidermal Growth Factor Receptor
1078	2081	70	EPHA3
1078	2081	70	EPHA5
1078	2081	70	EPHA6
1078	2081	70	EPHA7
1078	2081	70	EPHB1
1078	2081	70	EPHB4
1078	2081	70	EPHB6
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1078	2081	70	ETV1
1078	2081	70	ETV4
1078	2081	70	ETV5
1078	2081	70	ETV6
1078	2081	70	EWSR1
1078	2081	70	EZH2
1078	2081	70	FANCA
1078	2081	70	FBXW7
1078	2081	70	Fibroblast growth receptor 1
1078	2081	70	Fibroblast growth receptor 2
1078	2081	70	Fibroblast growth receptor 3

1078	2081	70	Fibroblast growth receptor 4
1078	2081	70	FLT1
1078	2081	70	Fms-like tyrosine kinase 3 (FLT3)
1078	2081	70	FLT4
1078	2081	70	FOXP4
1078	2081	70	GATA1
1078	2081	70	GNA11
1078	2081	70	GNAQ
1078	2081	70	GNAS
1078	2081	70	GPR124
1078	2081	70	GUCY1A2
1078	2081	70	HOXA3
1078	2081	70	HRAS
1078	2081	70	HSP90AA1
1078	2081	70	IDH1
1078	2081	70	IDH2
1078	2081	70	Insulin growth factor 1 receptor
1078	2081	70	IGF2R
1078	2081	70	IKBKE
1078	2081	70	IKZF1
1078	2081	70	INHBA
1078	2081	70	INSR
1078	2081	70	IRS2
1078	2081	70	JAK1
1078	2081	70	JAK2
1078	2081	70	JAK3
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1078	2081	70	KDM6A
1078	2081	70	KDR
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1078	2081	70	LRP1B
1078	2081	70	LRP6
1078	2081	70	LTK
1078	2081	70	MAP2K1
1078	2081	70	MAP2K2
1078	2081	70	MAP2K4
1078	2081	70	MCL1
1078	2081	70	MDM2
1078	2081	70	MDM4



1078	2081	70	MEN1
1078	2081	70	MET
1078	2081	70	Microphthalmia associated transcription factor
1078	2081	70	MLH1
1078	2081	70	MLL
1078	2081	70	MPL
1078	2081	70	MRE11A
1078	2081	70	MSH2
1078	2081	70	MSH6
1078	2081	70	MTOR
1078	2081	70	MUTYH
1078	2081	70	MYC
1078	2081	70	MYCL1
1078	2081	70	MYCN
1078	2081	70	NF1
1078	2081	70	NF2
1078	2081	70	NKX2-1
1078	2081	70	NOTCH1
1078	2081	70	Nucleophosmin (NPM1)
1078	2081	70	NRAS
1078	2081	70	NTRK1
1078	2081	70	NTRK2
1078	2081	70	NTRK3
1078	2081	70	PAK3
1078	2081	70	PAX5
1078	2081	70	PDGFRA
1078	2081	70	PDGFRB
1078	2081	70	PHLPP2
1078	2081	70	PIK3CG
1078	2081	70	PIK3R1
1078	2081	70	PKHD1
1078	2081	70	PLCG1
1078	2081	70	PRKDC
1078	2081	70	PTCH1
1078	2081	70	PTCH2
1078	2081	70	Phosphatase and Tensin homolog
1078	2081	70	PTPN11
1078	2081	70	PTPRD
1078	2081	70	RAF1
1078	2081	70	RARA

1078	2081	70	RET
1078	2081	70	RICTOR
1078	2081	70	RPTOR
1078	2081	70	SMAD2
1078	2081	70	SMAD3
1078	2081	70	SMAD4
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1078	2081	70	SMARCB1
1078	2081	70	SMO
1078	2081	70	SOX10
1078	2081	70	SOX2
1078	2081	70	SRC
1078	2081	70	STAT3
1078	2081	70	STK11
1078	2081	70	SUFU
1078	2081	70	TBX22
1078	2081	70	TET2
1078	2081	70	TGFBR2
1078	2081	70	TMPRSS2
1078	2081	70	TNFAIP3
1078	2081	70	TNKS
1078	2081	70	TNKS2
1078	2081	70	TOP1
1078	2081	70	Tuberous sclerosis complex 1 gene
1078	2081	70	Tuberous sclerosis complex 2 gene
1078	2081	70	USP9X
1078	2081	70	Von Hippel-Lindau
1078	2081	70	WT1
1079	2082	20	ABL1
1079	2082	20	AKT1
1079	2082	20	AKT2
1079	2082	20	AKT3
1079	2082	20	ALK
1079	2082	20	ALOX12B
1079	2082	20	APC
1079	2082	20	APCDD1
1079	2082	20	AR
1079	2082	20	ARAF
1079	2082	20	ARFRP1

1079	2082	20	ARID1A
1079	2082	20	ARID2
1079	2082	20	ASXL1
1079	2082	20	ATM
1079	2082	20	ATR
1079	2082	20	ATRX
1079	2082	20	AURKA
1079	2082	20	AURKB
1079	2082	20	AXL
1079	2082	20	BACH1
1079	2082	20	BAP1
1079	2082	20	BARD1
1079	2082	20	BCL-2
1079	2082	20	BCL2L2
1079	2082	20	BCL6
1079	2082	20	BCOR
1079	2082	20	BCORL1
1079	2082	20	BCR
1079	2082	20	BLM
1079	2082	20	BRAF
1079	2082	20	BRCA1
1079	2082	20	BRCA2
1079	2082	20	BRIP1
1079	2082	20	BTG1
1079	2082	20	BTK
1079	2082	20	C17orf39
1079	2082	20	CARD11
1079	2082	20	CASP8
1079	2082	20	CBFB
1079	2082	20	CBL
1079	2082	20	CCND2
1079	2082	20	CCND3
1079	2082	20	CCNE1
1079	2082	20	CD79A
1079	2082	20	CD79B
1079	2082	20	CDC73
1079	2082	20	CDH1
1079	2082	20	CDK12
1079	2082	20	Cyclin dependent kinase-4
1079	2082	20	CDK6

1079	2082	20	CDK8
1079	2082	20	CDKN1B
1079	2082	20	CDKN2A
1079	2082	20	CDKN2B
1079	2082	20	CDKN2C
1079	2082	20	CCAT/enhancer binding protein (CEBPA)
1079	2082	20	CHEK1
1079	2082	20	CHEK2
1079	2082	20	CHUK
1079	2082	20	CIC
1079	2082	20	CRBN
1079	2082	20	CREBBP
1079	2082	20	CRKL
1079	2082	20	CRLF2
1079	2082	20	CSF1R
1079	2082	20	CTCF
1079	2082	20	CTNNA1
1079	2082	20	CTNNB1
1079	2082	20	CUL4A
1079	2082	20	CUL4B
1079	2082	20	CYP17A1
1079	2082	20	DAXX
1079	2082	20	DDR2
1079	2082	20	DIS3
1079	2082	20	DNMT3A
1079	2082	20	DOT1L
1079	2082	20	Epidermal Growth Factor Receptor
1079	2082	20	EMSY
1079	2082	20	EP300
1079	2082	20	EPHA3
1079	2082	20	EPHA5
1079	2082	20	EPHB1
1079	2082	20	ERBB2
1079	2082	20	ERBB3
1079	2082	20	ERBB4
1079	2082	20	ERG
1079	2082	20	Estrogen receptor 1
1079	2082	20	ETV1
1079	2082	20	ETV4

1079	2082	20	ETV5
1079	2082	20	ETV6
1079	2082	20	EWSR1
1079	2082	20	EZH2
1079	2082	20	FAM123B(WTX)
1079	2082	20	FAM46C
1079	2082	20	FANCA
1079	2082	20	FANCC
1079	2082	20	FANCD2
1079	2082	20	FANCE
1079	2082	20	FANCF
1079	2082	20	FANCG
1079	2082	20	FANCI
1079	2082	20	FANCL
1079	2082	20	FANCM
1079	2082	20	FAT3
1079	2082	20	FBXW7
1079	2082	20	FGF10
1079	2082	20	FGF12
1079	2082	20	FGF14
1079	2082	20	Fibroblast growth factor 23
1079	2082	20	FGF6
1079	2082	20	FGF7
1079	2082	20	Fibroblast growth receptor 2
1079	2082	20	Fibroblast growth receptor 3
1079	2082	20	Fibroblast growth receptor 4
1079	2082	20	FLT1
1079	2082	20	Fms-like tyrosine kinase 3 (FLT3)
1079	2082	20	FLT4
1079	2082	20	FOXL2
1079	2082	20	GATA1
1079	2082	20	GATA2
1079	2082	20	GNA11
1079	2082	20	GNA13
1079	2082	20	GNAQ
1079	2082	20	GNAS
1079	2082	20	GPR124
1079	2082	20	GRIN2A
1079	2082	20	GSK3B
1079	2082	20	Hepatocyte growth factor

1079	2082	20	HLA-A
1079	2082	20	HRAS
1079	2082	20	IDH1
1079	2082	20	IDH2
1079	2082	20	Insulin-like growth factor 1
1079	2082	20	Insulin growth factor 1 receptor
1079	2082	20	Insulin-like growth factor 2, also somatomedin A
1079	2082	20	IKBKE
1079	2082	20	IKZF1
1079	2082	20	IL7R
1079	2082	20	INHBA
1079	2082	20	IRF4
1079	2082	20	IRS2
1079	2082	20	JAK1
1079	2082	20	JAK2
1079	2082	20	JAK3
1079	2082	20	JUN
1079	2082	20	KDM5A
1079	2082	20	KDM5C
1079	2082	20	KDM6A
1079	2082	20	KDR
1079	2082	20	KEAP1
1079	2082	20	KIT
1079	2082	20	KLHL6
1079	2082	20	KRAS
1079	2082	20	LMO1
1079	2082	20	LRP1B
1079	2082	20	MAP2K1
1079	2082	20	MAP2K2
1079	2082	20	MAP2K4
1079	2082	20	MAP3K1
1079	2082	20	MAP3K13
1079	2082	20	MCL1
1079	2082	20	MDM2
1079	2082	20	MDM4
1079	2082	20	MED12
1079	2082	20	MEF2B
1079	2082	20	MEN1
1079	2082	20	MET

1079	2082	20	Microphthalmia associated transcription factor
1079	2082	20	MLH1
1079	2082	20	MLL
1079	2082	20	MLL2
1079	2082	20	MPL
1079	2082	20	MRE11A
1079	2082	20	MSH2
1079	2082	20	MSH6
1079	2082	20	MTOR
1079	2082	20	MUTYH
1079	2082	20	MYC
1079	2082	20	MYCL1
1079	2082	20	MYCN
1079	2082	20	MYD88
1079	2082	20	NBN
1079	2082	20	NCOR1
1079	2082	20	NF1
1079	2082	20	NF2
1079	2082	20	NFE2L2
1079	2082	20	NFKBIA
1079	2082	20	NKX2-1
1079	2082	20	NOTCH1
1079	2082	20	NOTCH2
1079	2082	20	NOTCH3
1079	2082	20	NOTCH4
1079	2082	20	Nucleophosmin (NPM1)
1079	2082	20	NRAS
1079	2082	20	NSD1
1079	2082	20	NTRK1
1079	2082	20	NTRK2
1079	2082	20	NTRK3
1079	2082	20	NUP93
1079	2082	20	PAK3
1079	2082	20	PAK7
1079	2082	20	PALB2
1079	2082	20	PARP1
1079	2082	20	PARP2
1079	2082	20	PARP3
1079	2082	20	PARP4
1079	2082	20	PAX5

1079	2082	20	PBRM1
1079	2082	20	PDGFRA
1079	2082	20	PDGFRB
1079	2082	20	PKD1
1079	2082	20	PIK3C2G
1079	2082	20	PIK3C3
1079	2082	20	<i>PIK3CA</i>
1079	2082	20	PIK3CG
1079	2082	20	PIK3R1
1079	2082	20	PIK3R2
1079	2082	20	PMS2
1079	2082	20	PNRC1
1079	2082	20	PPP2R1A
1079	2082	20	PRDM1
1079	2082	20	PRKAR1A
1079	2082	20	PRKDC
1079	2082	20	PRSS8
1079	2082	20	PTCH1
1079	2082	20	Phosphatase and Tensin homolog
1079	2082	20	PTPN11
1079	2082	20	RAD50
1079	2082	20	RAD51
1079	2082	20	RAD51B
1079	2082	20	RAD51C
1079	2082	20	RAD51D
1079	2082	20	RAD52
1079	2082	20	RAD54L
1079	2082	20	RAF1
1079	2082	20	RARA
1079	2082	20	13q14(RB1)V
1079	2082	20	REL
1079	2082	20	RET
1079	2082	20	RICTOR
1079	2082	20	RNF43
1079	2082	20	ROS1
1079	2082	20	RPA1
1079	2082	20	RPTOR
1079	2082	20	RUNX1
1079	2082	20	RUNX1T1
1079	2082	20	SETD2



1079	2082	20	SF3B1
1079	2082	20	SH2B3
1079	2082	20	SMAD2
1079	2082	20	SMAD4
1079	2082	20	SMARCA4
1079	2082	20	SMARCB1
1079	2082	20	SMARCD1
1079	2082	20	SMO
1079	2082	20	SOCS1
1079	2082	20	SOX10
1079	2082	20	SOX2
1079	2082	20	SPEN
1079	2082	20	SPOP
1079	2082	20	SRC
1079	2082	20	STAG2
1079	2082	20	STAT4
1079	2082	20	STK11
1079	2082	20	SUFU
1079	2082	20	SYK
1079	2082	20	TBX3
1079	2082	20	TET2
1079	2082	20	TGFBR2
1079	2082	20	TIPARP
1079	2082	20	TMPRSS2
1079	2082	20	TNFAIP3
1079	2082	20	TNFRSF14
1079	2082	20	TOP1
1079	2082	20	TP53
1079	2082	20	TRRAP
1079	2082	20	Tuberous sclerosis complex 1 gene
1079	2082	20	Tuberous sclerosis complex 2 gene
1079	2082	20	TSHR
1079	2082	20	Von Hippel-Lindau
1079	2082	20	WISP3
1079	2082	20	WT1
1079	2082	20	XPO1
1079	2082	20	XRCC3
1079	2082	20	ZNF217
1080	2083	40	ABL1

1080	2083	40	AKT2
1080	2083	40	AKT3
1080	2083	40	ALK
1080	2083	40	ALOX12B
1080	2083	40	APC
1080	2083	40	APCDD1
1080	2083	40	AR
1080	2083	40	ARAF
1080	2083	40	ARFRP1
1080	2083	40	ARID1A
1080	2083	40	ARID2
1080	2083	40	ASXL1
1080	2083	40	ATM
1080	2083	40	ATR
1080	2083	40	AURKA
1080	2083	40	AURKB
1080	2083	40	AXL
1080	2083	40	BACH1
1080	2083	40	BAP1
1080	2083	40	BARD1
1080	2083	40	BCL-2
1080	2083	40	BCL2L2
1080	2083	40	BCL6
1080	2083	40	BCOR
1080	2083	40	BCORL1
1080	2083	40	BCR
1080	2083	40	BLM
1080	2083	40	BRAF
1080	2083	40	BRCA1
1080	2083	40	BRCA2
1080	2083	40	BRIP1
1080	2083	40	BTG1
1080	2083	40	BTK
1080	2083	40	C17orf39
1080	2083	40	CARD11
1080	2083	40	CASP8
1080	2083	40	CBFB
1080	2083	40	CBL
1080	2083	40	CCND1
1080	2083	40	CCND2

1080	2083	40	CCND3
1080	2083	40	CCNE1
1080	2083	40	CD79A
1080	2083	40	CD79B
1080	2083	40	CDC73
1080	2083	40	CDH1
1080	2083	40	CDK12
1080	2083	40	Cyclin dependent kinase-4
1080	2083	40	CDK6
1080	2083	40	CDK8
1080	2083	40	CDKN1B
1080	2083	40	CDKN2A
1080	2083	40	CDKN2B
1080	2083	40	CDKN2C
1080	2083	40	CCAT/enhancer binding protein (CEBPA)
1080	2083	40	CHEK1
1080	2083	40	CHEK2
1080	2083	40	CHUK
1080	2083	40	CIC
1080	2083	40	CRBN
1080	2083	40	CREBBP
1080	2083	40	CRKL
1080	2083	40	CRLF2
1080	2083	40	CSF1R
1080	2083	40	CTCF
1080	2083	40	CTNNA1
1080	2083	40	CTNNB1
1080	2083	40	CUL4A
1080	2083	40	CUL4B
1080	2083	40	CYP17A1
1080	2083	40	DAXX
1080	2083	40	DDR2
1080	2083	40	DIS3
1080	2083	40	DNMT3A
1080	2083	40	DOT1L
1080	2083	40	Epidermal Growth Factor Receptor
1080	2083	40	EMSY
1080	2083	40	EP300
1080	2083	40	EPHA3

1080	2083	40	EPHA5
1080	2083	40	EPHB1
1080	2083	40	ERBB2
1080	2083	40	ERBB3
1080	2083	40	ERBB4
1080	2083	40	ERG
1080	2083	40	ETV1
1080	2083	40	ETV4
1080	2083	40	ETV5
1080	2083	40	ETV6
1080	2083	40	EWSR1
1080	2083	40	EZH2
1080	2083	40	FAM123B(WTX)
1080	2083	40	FAM46C
1080	2083	40	FANCA
1080	2083	40	FANCC
1080	2083	40	FANCD2
1080	2083	40	FANCE
1080	2083	40	FANCF
1080	2083	40	FANCG
1080	2083	40	FANCI
1080	2083	40	FANCL
1080	2083	40	FANCM
1080	2083	40	FAT3
1080	2083	40	FBXW7
1080	2083	40	FGF10
1080	2083	40	FGF12
1080	2083	40	FGF14
1080	2083	40	Fibroblast growth factor 19
1080	2083	40	Fibroblast growth factor 23
1080	2083	40	Fibroblast growth factor 3
1080	2083	40	FGF4
1080	2083	40	FGF6
1080	2083	40	FGF7
1080	2083	40	Fibroblast growth receptor 2
1080	2083	40	Fibroblast growth receptor 3
1080	2083	40	Fibroblast growth receptor 4
1080	2083	40	FLT1
1080	2083	40	Fms-like tyrosine kinase 3 (FLT3)
1080	2083	40	FLT4

1080	2083	40	FOXL2
1080	2083	40	GATA1
1080	2083	40	GATA2
1080	2083	40	GATA3
1080	2083	40	GNA11
1080	2083	40	GNA13
1080	2083	40	GNAQ
1080	2083	40	GNAS
1080	2083	40	GPR124
1080	2083	40	GRIN2A
1080	2083	40	GSK3B
1080	2083	40	Hepatocyte growth factor
1080	2083	40	HLA-A
1080	2083	40	HRAS
1080	2083	40	IDH1
1080	2083	40	IDH2
1080	2083	40	Insulin-like growth factor 1
1080	2083	40	Insulin growth factor 1 receptor
1080	2083	40	Insulin-like growth factor 2, also somatomedin A
1080	2083	40	IKBKE
1080	2083	40	IKZF1
1080	2083	40	IL7R
1080	2083	40	INHBA
1080	2083	40	IRF4
1080	2083	40	IRS2
1080	2083	40	JAK1
1080	2083	40	JAK2
1080	2083	40	JAK3
1080	2083	40	JUN
1080	2083	40	KDM5A
1080	2083	40	KDM5C
1080	2083	40	KDM6A
1080	2083	40	KDR
1080	2083	40	KEAP1
1080	2083	40	KIT
1080	2083	40	KLHL6
1080	2083	40	KRAS
1080	2083	40	LMO1
1080	2083	40	LRP1B
1080	2083	40	MAP2K1

1080	2083	40	MAP2K2
1080	2083	40	MAP2K4
1080	2083	40	MAP3K1
1080	2083	40	MAP3K13
1080	2083	40	MCL1
1080	2083	40	MDM2
1080	2083	40	MDM4
1080	2083	40	MED12
1080	2083	40	MEF2B
1080	2083	40	MEN1
1080	2083	40	MET
1080	2083	40	Microphthalmia associated transcription factor
1080	2083	40	MLH1
1080	2083	40	MLL
1080	2083	40	MLL2
1080	2083	40	MPL
1080	2083	40	MRE11A
1080	2083	40	MSH2
1080	2083	40	MSH6
1080	2083	40	MTOR
1080	2083	40	MUTYH
1080	2083	40	MYCL1
1080	2083	40	MYCN
1080	2083	40	MYD88
1080	2083	40	MYST3
1080	2083	40	NBN
1080	2083	40	NCOR1
1080	2083	40	NF1
1080	2083	40	NF2
1080	2083	40	NFE2L2
1080	2083	40	NFKBIA
1080	2083	40	NKX2-1
1080	2083	40	NOTCH1
1080	2083	40	NOTCH2
1080	2083	40	NOTCH3
1080	2083	40	NOTCH4
1080	2083	40	Nucleophosmin (NPM1)
1080	2083	40	NRAS
1080	2083	40	NSD1
1080	2083	40	NTRK1

1080	2083	40	NTRK2
1080	2083	40	NTRK3
1080	2083	40	NUP93
1080	2083	40	PAK3
1080	2083	40	PAK7
1080	2083	40	PALB2
1080	2083	40	PARP1
1080	2083	40	PARP2
1080	2083	40	PARP3
1080	2083	40	PARP4
1080	2083	40	PAX5
1080	2083	40	PBRM1
1080	2083	40	PDGFRA
1080	2083	40	PDGFRB
1080	2083	40	PDK1
1080	2083	40	PIK3C2G
1080	2083	40	PIK3C3
1080	2083	40	<i>PIK3CA</i>
1080	2083	40	PIK3CG
1080	2083	40	PIK3R1
1080	2083	40	PIK3R2
1080	2083	40	PMS2
1080	2083	40	PNRC1
1080	2083	40	PPP2R1A
1080	2083	40	PRDM1
1080	2083	40	PRKAR1A
1080	2083	40	PRKDC
1080	2083	40	PRSS8
1080	2083	40	PTCH1
1080	2083	40	Phosphatase and Tensin homolog
1080	2083	40	PTPN11
1080	2083	40	RAD50
1080	2083	40	RAD51
1080	2083	40	RAD51B
1080	2083	40	RAD51C
1080	2083	40	RAD51D
1080	2083	40	RAD52
1080	2083	40	RAD54L
1080	2083	40	RAF1
1080	2083	40	RARA

1080	2083	40	13q14(RB1)V
1080	2083	40	REL
1080	2083	40	RET
1080	2083	40	RICTOR
1080	2083	40	RNF43
1080	2083	40	ROS1
1080	2083	40	RPA1
1080	2083	40	RPTOR
1080	2083	40	RUNX1
1080	2083	40	RUNX1T1
1080	2083	40	SETD2
1080	2083	40	SF3B1
1080	2083	40	SH2B3
1080	2083	40	SMAD2
1080	2083	40	SMAD4
1080	2083	40	SMARCA4
1080	2083	40	SMARCB1
1080	2083	40	SMARCD1
1080	2083	40	SMO
1080	2083	40	SOCS1
1080	2083	40	SOX10
1080	2083	40	SOX2
1080	2083	40	SPEN
1080	2083	40	SPOP
1080	2083	40	SRC
1080	2083	40	STAG2
1080	2083	40	STAT4
1080	2083	40	STK11
1080	2083	40	SUFU
1080	2083	40	SYK
1080	2083	40	TBX3
1080	2083	40	TET2
1080	2083	40	TGFBR2
1080	2083	40	TIPARP
1080	2083	40	TMPRSS2
1080	2083	40	TNFAIP3
1080	2083	40	TNFRSF14
1080	2083	40	TOP1
1080	2083	40	TRRAP
1080	2083	40	Tuberous sclerosis complex 1 gene



1080	2083	40	Tuberous sclerosis complex 2 gene
1080	2083	40	TSHR
1080	2083	40	Von Hippel-Lindau
1080	2083	40	WISP3
1080	2083	40	WT1
1080	2083	40	XPO1
1080	2083	40	XRCC3
1080	2083	40	ZNF217
1081	2084	20	ABL1
1081	2084	20	AKT1
1081	2084	20	AKT2
1081	2084	20	AKT3
1081	2084	20	ALK
1081	2084	20	ALOX12B
1081	2084	20	APC
1081	2084	20	APCDD1
1081	2084	20	AR
1081	2084	20	ARAF
1081	2084	20	ARFRP1
1081	2084	20	ARID1A
1081	2084	20	ARID2
1081	2084	20	ASXL1
1081	2084	20	ATM
1081	2084	20	ATR
1081	2084	20	ATRX
1081	2084	20	AURKA
1081	2084	20	AURKB
1081	2084	20	AXL
1081	2084	20	BACH1
1081	2084	20	BAP1
1081	2084	20	BARD1
1081	2084	20	BCL-2
1081	2084	20	BCL2L2
1081	2084	20	BCL6
1081	2084	20	BCOR
1081	2084	20	BCORL1
1081	2084	20	BCR
1081	2084	20	BLM
1081	2084	20	BRAF
1081	2084	20	BRCA1

1081	2084	20	BRCA2
1081	2084	20	BRIP1
1081	2084	20	BTG1
1081	2084	20	BTK
1081	2084	20	C17orf39
1081	2084	20	CARD11
1081	2084	20	CASP8
1081	2084	20	CBFB
1081	2084	20	CBL
1081	2084	20	CCND1
1081	2084	20	CCND2
1081	2084	20	CCND3
1081	2084	20	CCNE1
1081	2084	20	CD79A
1081	2084	20	CD79B
1081	2084	20	CDC73
1081	2084	20	CDH1
1081	2084	20	CDK12
1081	2084	20	Cyclin dependent kinase-4
1081	2084	20	CDK6
1081	2084	20	CDK8
1081	2084	20	CDKN1B
1081	2084	20	CDKN2A
1081	2084	20	CDKN2B
1081	2084	20	CDKN2C
1081	2084	20	CCAT/enhancer binding protein (CEBPA)
1081	2084	20	CHEK1
1081	2084	20	CHEK2
1081	2084	20	CHUK
1081	2084	20	CIC
1081	2084	20	CRBN
1081	2084	20	CREBBP
1081	2084	20	CRKL
1081	2084	20	CRLF2
1081	2084	20	CSF1R
1081	2084	20	CTCF
1081	2084	20	CTNNA1
1081	2084	20	CTNNB1
1081	2084	20	CUL4A
1081	2084	20	CUL4B

1081	2084	20	CYP17A1
1081	2084	20	DAXX
1081	2084	20	DDR2
1081	2084	20	DIS3
1081	2084	20	DNMT3A
1081	2084	20	DOT1L
1081	2084	20	Epidermal Growth Factor Receptor
1081	2084	20	EMSY
1081	2084	20	EP300
1081	2084	20	EPHA3
1081	2084	20	EPHA5
1081	2084	20	EPHB1
1081	2084	20	ERBB2
1081	2084	20	ERBB3
1081	2084	20	ERBB4
1081	2084	20	ERG
1081	2084	20	Estrogen receptor 1
1081	2084	20	ETV1
1081	2084	20	ETV4
1081	2084	20	ETV5
1081	2084	20	ETV6
1081	2084	20	EWSR1
1081	2084	20	EZH2
1081	2084	20	FAM123B(WTX)
1081	2084	20	FAM46C
1081	2084	20	FANCA
1081	2084	20	FANCC
1081	2084	20	FANCD2
1081	2084	20	FANCE
1081	2084	20	FANCF
1081	2084	20	FANCG
1081	2084	20	FANCI
1081	2084	20	FANCL
1081	2084	20	FANCM
1081	2084	20	FAT3
1081	2084	20	FBXW7
1081	2084	20	FGF10
1081	2084	20	FGF12
1081	2084	20	FGF14
1081	2084	20	Fibroblast growth factor 19

1081	2084	20	Fibroblast growth factor 23
1081	2084	20	Fibroblast growth factor 3
1081	2084	20	FGF4
1081	2084	20	FGF6
1081	2084	20	FGF7
1081	2084	20	Fibroblast growth receptor 1
1081	2084	20	Fibroblast growth receptor 2
1081	2084	20	Fibroblast growth receptor 3
1081	2084	20	Fibroblast growth receptor 4
1081	2084	20	FLT1
1081	2084	20	Fms-like tyrosine kinase 3 (FLT3)
1081	2084	20	FLT4
1081	2084	20	FOXL2
1081	2084	20	GATA1
1081	2084	20	GATA2
1081	2084	20	GATA3
1081	2084	20	GNA13
1081	2084	20	GNAQ
1081	2084	20	GNAS
1081	2084	20	GPR124
1081	2084	20	GRIN2A
1081	2084	20	GSK3B
1081	2084	20	Hepatocyte growth factor
1081	2084	20	HLA-A
1081	2084	20	HRAS
1081	2084	20	IDH1
1081	2084	20	IDH2
1081	2084	20	Insulin-like growth factor 1
1081	2084	20	Insulin growth factor 1 receptor
1081	2084	20	Insulin-like growth factor 2, also somatomedin A
1081	2084	20	IKBKE
1081	2084	20	IKZF1
1081	2084	20	IL7R
1081	2084	20	INHBA
1081	2084	20	IRF4
1081	2084	20	IRS2
1081	2084	20	JAK1
1081	2084	20	JAK2
1081	2084	20	JAK3
1081	2084	20	JUN

1081	2084	20	KDM5A
1081	2084	20	KDM5C
1081	2084	20	KDM6A
1081	2084	20	KDR
1081	2084	20	KEAP1
1081	2084	20	KIT
1081	2084	20	KLHL6
1081	2084	20	KRAS
1081	2084	20	LMO1
1081	2084	20	LRP1B
1081	2084	20	MAP2K1
1081	2084	20	MAP2K2
1081	2084	20	MAP2K4
1081	2084	20	MAP3K1
1081	2084	20	MAP3K13
1081	2084	20	MCL1
1081	2084	20	MDM2
1081	2084	20	MDM4
1081	2084	20	MED12
1081	2084	20	MEF2B
1081	2084	20	MEN1
1081	2084	20	MET
1081	2084	20	Microphthalmia associated transcription factor
1081	2084	20	MLH1
1081	2084	20	MLL
1081	2084	20	MLL2
1081	2084	20	MPL
1081	2084	20	MRE11A
1081	2084	20	MSH2
1081	2084	20	MSH6
1081	2084	20	MTOR
1081	2084	20	MUTYH
1081	2084	20	MYC
1081	2084	20	MYCL1
1081	2084	20	MYCN
1081	2084	20	MYD88
1081	2084	20	MYST3
1081	2084	20	NBN
1081	2084	20	NCOR1
1081	2084	20	NF1

1081	2084	20	NF2
1081	2084	20	NFE2L2
1081	2084	20	NFKBIA
1081	2084	20	NKX2-1
1081	2084	20	NOTCH1
1081	2084	20	NOTCH2
1081	2084	20	NOTCH3
1081	2084	20	NOTCH4
1081	2084	20	Nucleophosmin (NPM1)
1081	2084	20	NRAS
1081	2084	20	NSD1
1081	2084	20	NTRK1
1081	2084	20	NTRK2
1081	2084	20	NTRK3
1081	2084	20	NUP93
1081	2084	20	PAK3
1081	2084	20	PAK7
1081	2084	20	PALB2
1081	2084	20	PARP1
1081	2084	20	PARP2
1081	2084	20	PARP3
1081	2084	20	PARP4
1081	2084	20	PAX5
1081	2084	20	PBRM1
1081	2084	20	PDGFRA
1081	2084	20	PDGFRB
1081	2084	20	PK1
1081	2084	20	PIK3C2G
1081	2084	20	PIK3C3
1081	2084	20	<i>PIK3CA</i>
1081	2084	20	PIK3CG
1081	2084	20	PIK3R1
1081	2084	20	PIK3R2
1081	2084	20	PMS2
1081	2084	20	PNRC1
1081	2084	20	PPP2R1A
1081	2084	20	PRDM1
1081	2084	20	PRKAR1A
1081	2084	20	PRKDC
1081	2084	20	PRSS8

1081	2084	20	PTCH1
1081	2084	20	Phosphatase and Tensin homolog
1081	2084	20	PTPN11
1081	2084	20	RAD50
1081	2084	20	RAD51
1081	2084	20	RAD51B
1081	2084	20	RAD51C
1081	2084	20	RAD51D
1081	2084	20	RAD52
1081	2084	20	RAD54L
1081	2084	20	RAF1
1081	2084	20	RARA
1081	2084	20	13q14(RB1)V
1081	2084	20	REL
1081	2084	20	RET
1081	2084	20	RICTOR
1081	2084	20	RNF43
1081	2084	20	ROS1
1081	2084	20	RPA1
1081	2084	20	RPTOR
1081	2084	20	RUNX1
1081	2084	20	RUNX1T1
1081	2084	20	SETD2
1081	2084	20	SF3B1
1081	2084	20	SH2B3
1081	2084	20	SMAD2
1081	2084	20	SMAD4
1081	2084	20	SMARCB1
1081	2084	20	SMARCD1
1081	2084	20	SMO
1081	2084	20	SOCS1
1081	2084	20	SOX10
1081	2084	20	SOX2
1081	2084	20	SPEN
1081	2084	20	SPOP
1081	2084	20	SRC
1081	2084	20	STAG2
1081	2084	20	STAT4
1081	2084	20	STK11
1081	2084	20	SUFU

1081	2084	20	SYK
1081	2084	20	TBX3
1081	2084	20	TET2
1081	2084	20	TGFBR2
1081	2084	20	TIPARP
1081	2084	20	TMPRSS2
1081	2084	20	TNFAIP3
1081	2084	20	TNFRSF14
1081	2084	20	TOP1
1081	2084	20	TRRAP
1081	2084	20	Tuberous sclerosis complex 1 gene
1081	2084	20	Tuberous sclerosis complex 2 gene
1081	2084	20	TSHR
1081	2084	20	Von Hippel-Lindau
1081	2084	20	WISP3
1081	2084	20	WT1
1081	2084	20	XPO1
1081	2084	20	XRCC3
1081	2084	20	ZNF217
1081	2084	20	ZNF703
1081		20	GNA11
1082	2085	30	ABL1
1082	2085	30	AKT1
1082	2085	30	AKT2
1082	2085	30	AKT3
1082	2085	30	ALK
1082	2085	30	ALOX12B
1082	2085	30	APC
1082	2085	30	APCDD1
1082	2085	30	AR
1082	2085	30	ARAF
1082	2085	30	ARFRP1
1082	2085	30	ARID2
1082	2085	30	ASXL1
1082	2085	30	ATM
1082	2085	30	ATR
1082	2085	30	ATRX
1082	2085	30	AURKA
1082	2085	30	AURKB



1082	2085	30	AXL
1082	2085	30	BACH1
1082	2085	30	BAP1
1082	2085	30	BARD1
1082	2085	30	BCL-2
1082	2085	30	BCL2L2
1082	2085	30	BCL6
1082	2085	30	BCOR
1082	2085	30	BCORL1
1082	2085	30	BCR
1082	2085	30	BLM
1082	2085	30	BRAF
1082	2085	30	BRCA1
1082	2085	30	BRCA2
1082	2085	30	BRIP1
1082	2085	30	BTG1
1082	2085	30	BTK
1082	2085	30	C17orf39
1082	2085	30	CARD11
1082	2085	30	CASP8
1082	2085	30	CBFB
1082	2085	30	CBL
1082	2085	30	CCND2
1082	2085	30	CCND3
1082	2085	30	CCNE1
1082	2085	30	CD79A
1082	2085	30	CD79B
1082	2085	30	CDC73
1082	2085	30	CDH1
1082	2085	30	CDK12
1082	2085	30	Cyclin dependent kinase-4
1082	2085	30	CDK6
1082	2085	30	CDK8
1082	2085	30	CDKN1B
1082	2085	30	CDKN2A
1082	2085	30	CDKN2B
1082	2085	30	CDKN2C
1082	2085	30	CCAT/enhancer binding protein (CEBPA)
1082	2085	30	CHEK1
1082	2085	30	CHEK2

1082	2085	30	CHUK
1082	2085	30	CIC
1082	2085	30	CRBN
1082	2085	30	CREBBP
1082	2085	30	CRKL
1082	2085	30	CRLF2
1082	2085	30	CSF1R
1082	2085	30	CTCF
1082	2085	30	CTNNA1
1082	2085	30	CTNNB1
1082	2085	30	CUL4A
1082	2085	30	CUL4B
1082	2085	30	CYP17A1
1082	2085	30	DAXX
1082	2085	30	DDR2
1082	2085	30	DIS3
1082	2085	30	DNMT3A
1082	2085	30	DOT1L
1082	2085	30	Epidermal Growth Factor Receptor
1082	2085	30	EP300
1082	2085	30	EPHA3
1082	2085	30	EPHA5
1082	2085	30	EPHB1
1082	2085	30	ERBB2
1082	2085	30	ERBB3
1082	2085	30	ERBB4
1082	2085	30	ERG
1082	2085	30	Estrogen receptor 1
1082	2085	30	ETV1
1082	2085	30	ETV4
1082	2085	30	ETV5
1082	2085	30	ETV6
1082	2085	30	EWSR1
1082	2085	30	EZH2
1082	2085	30	FAM123B(WTX)
1082	2085	30	FAM46C
1082	2085	30	FANCA
1082	2085	30	FANCC
1082	2085	30	FANCD2
1082	2085	30	FANCE

1082	2085	30	FANCF
1082	2085	30	FANCG
1082	2085	30	FANCI
1082	2085	30	FANCL
1082	2085	30	FANCM
1082	2085	30	FAT3
1082	2085	30	FBXW7
1082	2085	30	FGF10
1082	2085	30	FGF12
1082	2085	30	FGF14
1082	2085	30	Fibroblast growth factor 23
1082	2085	30	FGF6
1082	2085	30	FGF7
1082	2085	30	Fibroblast growth receptor 1
1082	2085	30	Fibroblast growth receptor 2
1082	2085	30	Fibroblast growth receptor 3
1082	2085	30	Fibroblast growth receptor 4
1082	2085	30	FLT1
1082	2085	30	Fms-like tyrosine kinase 3 (FLT3)
1082	2085	30	FLT4
1082	2085	30	FOXL2
1082	2085	30	GATA1
1082	2085	30	GATA2
1082	2085	30	GATA3
1082	2085	30	GNA11
1082	2085	30	GNA13
1082	2085	30	GNAQ
1082	2085	30	GNAS
1082	2085	30	GPR124
1082	2085	30	GRIN2A
1082	2085	30	GSK3B
1082	2085	30	Hepatocyte growth factor
1082	2085	30	HLA-A
1082	2085	30	HRAS
1082	2085	30	IDH1
1082	2085	30	IDH2
1082	2085	30	Insulin-like growth factor 1
1082	2085	30	Insulin growth factor 1 receptor
1082	2085	30	Insulin-like growth factor 2, also somatomedin A
1082	2085	30	IKBKE

1082	2085	30	IKZF1
1082	2085	30	IL7R
1082	2085	30	INHBA
1082	2085	30	IRF4
1082	2085	30	IRS2
1082	2085	30	JAK1
1082	2085	30	JAK2
1082	2085	30	JAK3
1082	2085	30	JUN
1082	2085	30	KDM5A
1082	2085	30	KDM5C
1082	2085	30	KDM6A
1082	2085	30	KDR
1082	2085	30	KEAP1
1082	2085	30	KIT
1082	2085	30	KLHL6
1082	2085	30	KRAS
1082	2085	30	LMO1
1082	2085	30	LRP1B
1082	2085	30	MAP2K1
1082	2085	30	MAP2K2
1082	2085	30	MAP2K4
1082	2085	30	MAP3K1
1082	2085	30	MAP3K13
1082	2085	30	MCL1
1082	2085	30	MDM2
1082	2085	30	MDM4
1082	2085	30	MED12
1082	2085	30	MEF2B
1082	2085	30	MEN1
1082	2085	30	MET
1082	2085	30	Microphthalmia associated transcription factor
1082	2085	30	MLH1
1082	2085	30	MLL
1082	2085	30	MLL2
1082	2085	30	MPL
1082	2085	30	MRE11A
1082	2085	30	MSH2
1082	2085	30	MSH6
1082	2085	30	MTOR

1082	2085	30	MUTYH
1082	2085	30	MYC
1082	2085	30	MYCL1
1082	2085	30	MYCN
1082	2085	30	MYD88
1082	2085	30	MYST3
1082	2085	30	NBN
1082	2085	30	NCOR1
1082	2085	30	NF1
1082	2085	30	NF2
1082	2085	30	NFE2L2
1082	2085	30	NFKBIA
1082	2085	30	NKX2-1
1082	2085	30	NOTCH1
1082	2085	30	NOTCH2
1082	2085	30	NOTCH3
1082	2085	30	NOTCH4
1082	2085	30	Nucleophosmin (NPM1)
1082	2085	30	NRAS
1082	2085	30	NSD1
1082	2085	30	NTRK1
1082	2085	30	NTRK2
1082	2085	30	NTRK3
1082	2085	30	NUP93
1082	2085	30	PAK3
1082	2085	30	PAK7
1082	2085	30	PALB2
1082	2085	30	PARP1
1082	2085	30	PARP2
1082	2085	30	PARP3
1082	2085	30	PARP4
1082	2085	30	PAX5
1082	2085	30	PBRM1
1082	2085	30	PDGFRA
1082	2085	30	PDGFRB
1082	2085	30	PDK1
1082	2085	30	PIK3C2G
1082	2085	30	PIK3C3
1082	2085	30	PIK3CG
1082	2085	30	PIK3R1

1082	2085	30	PIK3R2
1082	2085	30	PMS2
1082	2085	30	PNRC1
1082	2085	30	PPP2R1A
1082	2085	30	PRDM1
1082	2085	30	PRKAR1A
1082	2085	30	PRKDC
1082	2085	30	PRSS8
1082	2085	30	PTCH1
1082	2085	30	Phosphatase and Tensin homolog
1082	2085	30	PTPN11
1082	2085	30	RAD50
1082	2085	30	RAD51
1082	2085	30	RAD51B
1082	2085	30	RAD51C
1082	2085	30	RAD51D
1082	2085	30	RAD52
1082	2085	30	RAD54L
1082	2085	30	RAF1
1082	2085	30	RARA
1082	2085	30	13q14(RB1)V
1082	2085	30	REL
1082	2085	30	RET
1082	2085	30	RICTOR
1082	2085	30	RNF43
1082	2085	30	ROS1
1082	2085	30	RPA1
1082	2085	30	RPTOR
1082	2085	30	RUNX1
1082	2085	30	RUNX1T1
1082	2085	30	SETD2
1082	2085	30	SF3B1
1082	2085	30	SH2B3
1082	2085	30	SMAD2
1082	2085	30	SMAD4
1082	2085	30	SMARCA4
1082	2085	30	SMARCB1
1082	2085	30	SMARCD1
1082	2085	30	SMO
1082	2085	30	SOCS1

1082	2085	30	SOX10
1082	2085	30	SOX2
1082	2085	30	SPEN
1082	2085	30	SPOP
1082	2085	30	SRC
1082	2085	30	STAG2
1082	2085	30	STAT4
1082	2085	30	STK11
1082	2085	30	SUFU
1082	2085	30	SYK
1082	2085	30	TBX3
1082	2085	30	TET2
1082	2085	30	TGFBR2
1082	2085	30	TIPARP
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1082	2085	30	TNFAIP3
1082	2085	30	TNFRSF14
1082	2085	30	TOP1
1082	2085	30	TP53
1082	2085	30	TRRAP
1082	2085	30	Tuberous sclerosis complex 1 gene
1082	2085	30	Tuberous sclerosis complex 2 gene
1082	2085	30	TSHR
1082	2085	30	Von Hippel-Lindau
1082	2085	30	WISP3
1082	2085	30	WT1
1082	2085	30	XPO1
1082	2085	30	XRCC3
1082	2085	30	ZNF217
1082	2085	30	ZNF703
1083	2086	20	ABL1
1083	2086	20	AKT1
1083	2086	20	AKT2
1083	2086	20	AKT3
1083	2086	20	ALK
1083	2086	20	ALOX12B
1083	2086	20	APC
1083	2086	20	APCDD1
1083	2086	20	AR

1083	2086	20	ARAF
1083	2086	20	ARFRP1
1083	2086	20	ARID1A
1083	2086	20	ARID2
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1083	2086	20	ATR
1083	2086	20	ATRX
1083	2086	20	AURKA
1083	2086	20	AURKB
1083	2086	20	AXL
1083	2086	20	BACH1
1083	2086	20	BAP1
1083	2086	20	BARD1
1083	2086	20	BCL-2
1083	2086	20	BCL2L2
1083	2086	20	BCL6
1083	2086	20	BCOR
1083	2086	20	BCORL1
1083	2086	20	BCR
1083	2086	20	BLM
1083	2086	20	BRAF
1083	2086	20	BRCA1
1083	2086	20	BRCA2
1083	2086	20	BRIP1
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1083	2086	20	BTK
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1083	2086	20	CARD11
1083	2086	20	CASP8
1083	2086	20	CBFB
1083	2086	20	CBL
1083	2086	20	CCND1
1083	2086	20	CCND2
1083	2086	20	CCND3
1083	2086	20	CCNE1
1083	2086	20	CD79A
1083	2086	20	CD79B
1083	2086	20	CDC73
1083	2086	20	CDH1
1083	2086	20	CDK12



1083	2086	20	Cyclin dependent kinase-4
1083	2086	20	CDK6
1083	2086	20	CDK8
1083	2086	20	CDKN1B
1083	2086	20	CDKN2A
1083	2086	20	CDKN2B
1083	2086	20	CDKN2C
1083	2086	20	CCAT/enhancer binding protein (CEBPA)
1083	2086	20	CHEK1
1083	2086	20	CHEK2
1083	2086	20	CHUK
1083	2086	20	CIC
1083	2086	20	CRBN
1083	2086	20	CREBBP
1083	2086	20	CRKL
1083	2086	20	CRLF2
1083	2086	20	CSF1R
1083	2086	20	CTCF
1083	2086	20	CTNNA1
1083	2086	20	CTNNB1
1083	2086	20	CUL4A
1083	2086	20	CUL4B
1083	2086	20	CYP17A1
1083	2086	20	DAXX
1083	2086	20	DDR2
1083	2086	20	DIS3
1083	2086	20	DNMT3A
1083	2086	20	DOT1L
1083	2086	20	Epidermal Growth Factor Receptor
1083	2086	20	EMSY
1083	2086	20	EPHA3
1083	2086	20	EPHA5
1083	2086	20	EPHB1
1083	2086	20	ERBB2
1083	2086	20	ERBB3
1083	2086	20	ERBB4
1083	2086	20	ERG
1083	2086	20	ETV1
1083	2086	20	ETV4

1083	2086	20	ETV5
1083	2086	20	ETV6
1083	2086	20	EWSR1
1083	2086	20	EZH2
1083	2086	20	FAM123B(WTX)
1083	2086	20	FAM46C
1083	2086	20	FANCA
1083	2086	20	FANCC
1083	2086	20	FANCD2
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1083	2086	20	FANCG
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1083	2086	20	FANCL
1083	2086	20	FANCM
1083	2086	20	FAT3
1083	2086	20	FBXW7
1083	2086	20	FGF10
1083	2086	20	FGF12
1083	2086	20	FGF14
1083	2086	20	Fibroblast growth factor 19
1083	2086	20	Fibroblast growth factor 23
1083	2086	20	Fibroblast growth factor 3
1083	2086	20	FGF4
1083	2086	20	FGF6
1083	2086	20	FGF7
1083	2086	20	Fibroblast growth receptor 1
1083	2086	20	Fibroblast growth receptor 2
1083	2086	20	Fibroblast growth receptor 3
1083	2086	20	Fibroblast growth receptor 4
1083	2086	20	FLT1
1083	2086	20	Fms-like tyrosine kinase 3 (FLT3)
1083	2086	20	FLT4
1083	2086	20	FOXL2
1083	2086	20	GATA1
1083	2086	20	GATA2
1083	2086	20	GATA3
1083	2086	20	GNA11
1083	2086	20	GNA13
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1083	2086	20	GNAS
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1083	2086	20	GRIN2A
1083	2086	20	GSK3B
1083	2086	20	Hepatocyte growth factor
1083	2086	20	HLA-A
1083	2086	20	HRAS
1083	2086	20	IDH1
1083	2086	20	IDH2
1083	2086	20	Insulin-like growth factor 1
1083	2086	20	Insulin growth factor 1 receptor
1083	2086	20	Insulin-like growth factor 2, also somatomedin A
1083	2086	20	IKBKE
1083	2086	20	IKZF1
1083	2086	20	IL7R
1083	2086	20	INHBA
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1083	2086	20	KDM5A
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1083	2086	20	KDM6A
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1083	2086	20	KEAP1
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1083	2086	20	MAP2K1
1083	2086	20	MAP2K2
1083	2086	20	MAP2K4
1083	2086	20	MAP3K1
1083	2086	20	MAP3K13
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1083	2086	20	MDM2
1083	2086	20	MDM4

1083	2086	20	MED12
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1083	2086	20	MEN1
1083	2086	20	MET
1083	2086	20	Microphthalmia associated transcription factor
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1083	2086	20	MLL
1083	2086	20	MLL2
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1083	2086	20	MRE11A
1083	2086	20	MSH2
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1083	2086	20	MTOR
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1083	2086	20	MYCN
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1083	2086	20	NOTCH3
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1083	2086	20	Nucleophosmin (NPM1)
1083	2086	20	NRAS
1083	2086	20	NSD1
1083	2086	20	NTRK1
1083	2086	20	NTRK2
1083	2086	20	NTRK3
1083	2086	20	NUP93
1083	2086	20	PAK3
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1083	2086	20	PARP1
1083	2086	20	PARP2
1083	2086	20	PARP3
1083	2086	20	PARP4
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1083	2086	20	PDK1
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1083	2086	20	PIK3C3
1083	2086	20	<i>PIK3CA</i>
1083	2086	20	PIK3CG
1083	2086	20	PIK3R1
1083	2086	20	PIK3R2
1083	2086	20	PMS2
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1083	2086	20	PPP2R1A
1083	2086	20	PRDM1
1083	2086	20	PRKAR1A
1083	2086	20	PRKDC
1083	2086	20	PRSS8
1083	2086	20	PTCH1
1083	2086	20	Phosphatase and Tensin homolog
1083	2086	20	PTPN11
1083	2086	20	RAD50
1083	2086	20	RAD51
1083	2086	20	RAD51B
1083	2086	20	RAD51C
1083	2086	20	RAD51D
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1083	2086	20	RAF1
1083	2086	20	RARA
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1083	2086	20	SH2B3
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1083	2086	20	SOX10
1083	2086	20	SOX2
1083	2086	20	SPEN
1083	2086	20	SPOP
1083	2086	20	SRC
1083	2086	20	STAG2
1083	2086	20	STAT4
1083	2086	20	STK11
1083	2086	20	SUFU
1083	2086	20	SYK
1083	2086	20	TBX3
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1083	2086	20	TOP1
1083	2086	20	TP53
1083	2086	20	TRRAP
1083	2086	20	Tuberous sclerosis complex 1 gene
1083	2086	20	Tuberous sclerosis complex 2 gene
1083	2086	20	TSHR
1083	2086	20	Von Hippel-Lindau
1083	2086	20	WISP3

1083	2086	20	WT1
1083	2086	20	XPO1
1083	2086	20	XRCC3
1083	2086	20	ZNF217
1083	2086	20	ZNF703
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1094	2097	30	APCDD1
1094	2097	30	AR
1094	2097	30	ARAF
1094	2097	30	ARFRP1
1094	2097	30	ARID1A
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1094	2097	30	ATRX
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1094	2097	30	AURKB
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1094	2097	30	BCL2L2
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1094	2097	30	BLM
1094	2097	30	BRAF
1094	2097	30	BRCA1
1094	2097	30	BRCA2
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1094	2097	30	CARD11
1094	2097	30	CASP8
1094	2097	30	CBFB
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1094	2097	30	CDC73
1094	2097	30	CDH1
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1094	2097	30	Cyclin dependent kinase-4
1094	2097	30	CDK6
1094	2097	30	CDK8
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1094	2097	30	CDKN2B
1094	2097	30	CDKN2C
1094	2097	30	CCAT/enhancer binding protein (CEBPA)
1094	2097	30	CHEK1
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1094	2097	30	CHUK
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1094	2097	30	CTNNB1
1094	2097	30	CUL4A
1094	2097	30	CUL4B
1094	2097	30	CYP17A1
1094	2097	30	DAXX
1094	2097	30	DDR2
1094	2097	30	DIS3



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1094	2097	30	DOT1L
1094	2097	30	Epidermal Growth Factor Receptor
1094	2097	30	EMSY
1094	2097	30	EP300
1094	2097	30	EPHA3
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1094	2097	30	ERBB2
1094	2097	30	ERBB3
1094	2097	30	ERBB4
1094	2097	30	ERG
1094	2097	30	Estrogen receptor 1
1094	2097	30	ETV1
1094	2097	30	ETV4
1094	2097	30	ETV5
1094	2097	30	ETV6
1094	2097	30	EWSR1
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1094	2097	30	FGF12
1094	2097	30	FGF14
1094	2097	30	Fibroblast growth factor 19
1094	2097	30	Fibroblast growth factor 23
1094	2097	30	Fibroblast growth factor 3
1094	2097	30	FGF4
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1094	2097	30	FGF7
1094	2097	30	Fibroblast growth receptor 1
1094	2097	30	Fibroblast growth receptor 2
1094	2097	30	Fibroblast growth receptor 3
1094	2097	30	Fibroblast growth receptor 4
1094	2097	30	FLT1
1094	2097	30	Fms-like tyrosine kinase 3 (FLT3)
1094	2097	30	FLT4
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1094	2097	30	GATA1
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1094	2097	30	GPR124
1094	2097	30	GRIN2A
1094	2097	30	GSK3B
1094	2097	30	Hepatocyte growth factor
1094	2097	30	HLA-A
1094	2097	30	HRAS
1094	2097	30	IDH1
1094	2097	30	IDH2
1094	2097	30	Insulin-like growth factor 1
1094	2097	30	Insulin growth factor 1 receptor
1094	2097	30	Insulin-like growth factor 2, also somatomedin A
1094	2097	30	IKBKE
1094	2097	30	IKZF1
1094	2097	30	IL7R
1094	2097	30	INHBA
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1094	2097	30	JAK1
1094	2097	30	JAK2
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1094	2097	30	KDM5A
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1094	2097	30	KDM6A

1094	2097	30	KDR
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1094	2097	30	KRAS
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1094	2097	30	MAP3K1
1094	2097	30	MAP3K13
1094	2097	30	MCL1
1094	2097	30	MDM2
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1094	2097	30	MLH1
1094	2097	30	MLL
1094	2097	30	MLL2
1094	2097	30	MPL
1094	2097	30	MRE11A
1094	2097	30	MSH2
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1094	2097	30	NOTCH1
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1094	2097	30	Nucleophosmin (NPM1)
1094	2097	30	NRAS
1094	2097	30	NSD1
1094	2097	30	NTRK1
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1094	2097	30	NUP93
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1094	2097	30	PDK1
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1094	2097	30	PIK3C3
1094	2097	30	<i>PIK3CA</i>
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1094	2097	30	PIK3R1
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1094	2097	30	PPP2R1A
1094	2097	30	PRDM1
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1094	2097	30	PRSS8
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1094	2097	30	PTPN11

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1094	2097	30	TRRAP
1094	2097	30	Tuberous sclerosis complex 1 gene
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1094	2097	30	TSHR
1094	2097	30	Von Hippel-Lindau
1094	2097	30	WISP3
1094	2097	30	WT1
1094	2097	30	XPO1
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1095	2098	60	BRAF
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1095	2098	60	CCND2
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1095	2098	60	CDH1
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1095	2098	60	Cyclin dependent kinase-4
1095	2098	60	CDK6
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1095	2098	60	CCAT/enhancer binding protein (CEBPA)
1095	2098	60	CHEK1
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1095	2098	60	Estrogen receptor 1
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1095	2098	60	ETV5
1095	2098	60	ETV6
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1095	2098	60	FBXW7
1095	2098	60	Fibroblast growth receptor 1
1095	2098	60	Fibroblast growth receptor 2
1095	2098	60	Fibroblast growth receptor 3
1095	2098	60	Fibroblast growth receptor 4
1095	2098	60	FLT1
1095	2098	60	Fms-like tyrosine kinase 3 (FLT3)
1095	2098	60	FLT4
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1095	2098	60	GPR124
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1095	2098	60	HOXA3
1095	2098	60	HRAS
1095	2098	60	HSP90AA1
1095	2098	60	IDH1
1095	2098	60	IDH2
1095	2098	60	Insulin growth factor 1 receptor
1095	2098	60	IGF2R
1095	2098	60	IKBKE
1095	2098	60	IKZF1
1095	2098	60	INHBA
1095	2098	60	INSR
1095	2098	60	IRS2
1095	2098	60	JAK1
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1095	2098	60	JAK3



1095	2098	60	JUN
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1095	2098	60	KDR
1095	2098	60	KIT
1095	2098	60	KRAS
1095	2098	60	LRP1B
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1095	2098	60	MAP2K1
1095	2098	60	MAP2K2
1095	2098	60	MAP2K4
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1095	2098	60	MRE11A
1095	2098	60	MSH2
1095	2098	60	MSH6
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1095	2098	60	MYC
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1095	2098	60	NKX2-1
1095	2098	60	NOTCH1
1095	2098	60	Nucleophosmin (NPM1)
1095	2098	60	NRAS
1095	2098	60	NTRK1
1095	2098	60	NTRK2
1095	2098	60	NTRK3
1095	2098	60	PAK3
1095	2098	60	PAX5
1095	2098	60	PDGFRA
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1095	2098	60	PHLPP2
1095	2098	60	PIK3CG
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1095	2098	60	PKHD1
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1095	2098	60	PTCH1
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1095	2098	60	PTPN11
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1095	2098	60	RARA
1095	2098	60	13q14(RB1)V
1095	2098	60	RET
1095	2098	60	RICTOR
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1095	2098	60	SMARCB1
1095	2098	60	SMO
1095	2098	60	SOX10
1095	2098	60	SOX2
1095	2098	60	SRC
1095	2098	60	STAT3
1095	2098	60	STK11
1095	2098	60	SUFU
1095	2098	60	TBX22
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1095	2098	60	TNKS2
1095	2098	60	TOP1
1095	2098	60	TP53
1095	2098	60	Tuberous sclerosis complex 1 gene
1095	2098	60	USP9X

1095	2098	60	Von Hippel-Lindau
1095	2098	60	WT1
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1095		60	Tuberous sclerosis complex 2 gene
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1096	2099	70	AKT1
1096	2099	70	AKT2
1096	2099	70	AKT3
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1096	2099	70	ALOX12B
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1096	2099	70	AR
1096	2099	70	ARAF
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1096	2099	70	BARD1
1096	2099	70	BCL-2
1096	2099	70	BCL2L2
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1096	2099	70	BRAF
1096	2099	70	BRCA1
1096	2099	70	BRCA2
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1096	2099	70	C17orf39
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1096	2099	70	CBFB
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1096	2099	70	CDK6
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1096	2099	70	CDKN2B
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1096	2099	70	CCAT/enhancer binding protein (CEBPA)
1096	2099	70	CHEK1
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1096	2099	70	DOT1L
1096	2099	70	Epidermal Growth Factor Receptor
1096	2099	70	EMSY
1096	2099	70	EP300
1096	2099	70	EPHA3
1096	2099	70	EPHA5
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1096	2099	70	ERBB2
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1096	2099	70	ERBB4
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1096	2099	70	Estrogen receptor 1
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1096	2099	70	ETV4
1096	2099	70	ETV5
1096	2099	70	ETV6
1096	2099	70	EWSR1
1096	2099	70	EZH2
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1096	2099	70	FAM46C
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1096	2099	70	FANCE
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1096	2099	70	FGF12
1096	2099	70	FGF14
1096	2099	70	Fibroblast growth factor 19
1096	2099	70	Fibroblast growth factor 23
1096	2099	70	Fibroblast growth factor 3
1096	2099	70	FGF4
1096	2099	70	FGF6
1096	2099	70	FGF7

1096	2099	70	Fibroblast growth receptor 1
1096	2099	70	Fibroblast growth receptor 2
1096	2099	70	Fibroblast growth receptor 3
1096	2099	70	Fibroblast growth receptor 4
1096	2099	70	FLT1
1096	2099	70	Fms-like tyrosine kinase 3 (FLT3)
1096	2099	70	FLT4
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1096	2099	70	GATA1
1096	2099	70	GATA2
1096	2099	70	GATA3
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1096	2099	70	GNAS
1096	2099	70	GPR124
1096	2099	70	GRIN2A
1096	2099	70	GSK3B
1096	2099	70	Hepatocyte growth factor
1096	2099	70	HLA-A
1096	2099	70	HRAS
1096	2099	70	IDH1
1096	2099	70	IDH2
1096	2099	70	Insulin-like growth factor 1
1096	2099	70	Insulin growth factor 1 receptor
1096	2099	70	Insulin-like growth factor 2, also somatomedin A
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1096	2099	70	IKZF1
1096	2099	70	IL7R
1096	2099	70	INHBA
1096	2099	70	IRF4
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1096	2099	70	KDM5C
1096	2099	70	KDM6A
1096	2099	70	KDR

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1096	2099	70	KLHL6
1096	2099	70	LMO1
1096	2099	70	LRP1B
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1096	2099	70	MAP2K2
1096	2099	70	MAP2K4
1096	2099	70	MAP3K1
1096	2099	70	MAP3K13
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1096	2099	70	Microphthalmia associated transcription factor
1096	2099	70	MLH1
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1096	2099	70	MLL2
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1096	2099	70	NOTCH1
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1096	2099	70	NRAS
1096	2099	70	NSD1
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1096	2099	70	PAX5
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1096	2099	70	PIK3C2G
1096	2099	70	PIK3C3
1096	2099	70	PIK3CG
1096	2099	70	PIK3R1
1096	2099	70	PIK3R2
1096	2099	70	PMS2
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1096	2099	70	PPP2R1A
1096	2099	70	PRDM1
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1096	2099	70	PRKDC
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1096	2099	70	PTPN11
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1096	2099	70	RAD51
1096	2099	70	RAD51B
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1096	2099	70	RAD51D



1096	2099	70	RAD52
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1096	2099	70	13q14(RB1)V
1096	2099	70	REL
1096	2099	70	RET
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1096	2099	70	RPA1
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1096	2099	70	SETD2
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1096	2099	70	SH2B3
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1096	2099	70	SOX10
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1096	2099	70	TET2
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1096	2099	70	TP53
1096	2099	70	TRRAP
1096	2099	70	Tuberous sclerosis complex 1 gene
1096	2099	70	Tuberous sclerosis complex 2 gene
1096	2099	70	TSHR
1096	2099	70	Von Hippel-Lindau
1096	2099	70	WISP3
1096	2099	70	WT1
1096	2099	70	XPO1
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1097	2100	60	ALOX12B
1097	2100	60	APC
1097	2100	60	APCDD1
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1097	2100	60	BCL6

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1097	2100	60	CD79B
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1097	2100	60	Cyclin dependent kinase-4
1097	2100	60	CDK6
1097	2100	60	CDK8
1097	2100	60	CDKN1B
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1097	2100	60	CDKN2C
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1097	2100	60	CHEK1
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1097	2100	60	CTNNB1
1097	2100	60	CUL4A
1097	2100	60	CUL4B
1097	2100	60	CYP17A1
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1097	2100	60	Epidermal Growth Factor Receptor
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1097	2100	60	EPHA5
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1097	2100	60	ETV1
1097	2100	60	ETV4
1097	2100	60	ETV5
1097	2100	60	ETV6
1097	2100	60	EWSR1
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1097	2100	60	FAM46C
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1097	2100	60	FGF12
1097	2100	60	FGF14
1097	2100	60	Fibroblast growth factor 19
1097	2100	60	Fibroblast growth factor 23
1097	2100	60	Fibroblast growth factor 3
1097	2100	60	FGF4
1097	2100	60	FGF6
1097	2100	60	FGF7
1097	2100	60	Fibroblast growth receptor 2
1097	2100	60	Fibroblast growth receptor 3
1097	2100	60	Fibroblast growth receptor 4
1097	2100	60	FLT1
1097	2100	60	Fms-like tyrosine kinase 3 (FLT3)
1097	2100	60	FLT4
1097	2100	60	FOXL2
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1097	2100	60	GNAS
1097	2100	60	GPR124
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1097	2100	60	GSK3B
1097	2100	60	Hepatocyte growth factor
1097	2100	60	HLA-A
1097	2100	60	HRAS
1097	2100	60	IDH1
1097	2100	60	IDH2
1097	2100	60	Insulin-like growth factor 1
1097	2100	60	Insulin growth factor 1 receptor
1097	2100	60	Insulin-like growth factor 2, also somatomedin A
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1097	2100	60	IL7R
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1097	2100	60	LMO1
1097	2100	60	LRP1B
1097	2100	60	MAP2K1
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1097	2100	60	MEN1
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1097	2100	60	MLL2
1097	2100	60	MPL
1097	2100	60	MRE11A
1097	2100	60	MSH2
1097	2100	60	MSH6
1097	2100	60	MTOR
1097	2100	60	MUTYH
1097	2100	60	MYC
1097	2100	60	MYCL1
1097	2100	60	MYCN

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1097	2100	60	NCOR1
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1097	2100	60	NF2
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1097	2100	60	NOTCH1
1097	2100	60	NOTCH2
1097	2100	60	NOTCH3
1097	2100	60	NOTCH4
1097	2100	60	Nucleophosmin (NPM1)
1097	2100	60	NRAS
1097	2100	60	NSD1
1097	2100	60	NTRK1
1097	2100	60	NTRK2
1097	2100	60	NTRK3
1097	2100	60	NUP93
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1097	2100	60	PAX5
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1097	2100	60	PDGFRA
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1097	2100	60	PIK3R2
1097	2100	60	PMS2
1097	2100	60	PNRC1
1097	2100	60	PPP2R1A
1097	2100	60	PRDM1

1097	2100	60	PRKAR1A
1097	2100	60	PRKDC
1097	2100	60	PRSS8
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1097	2100	60	Phosphatase and Tensin homolog
1097	2100	60	PTPN11
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1097	2100	60	RAD52
1097	2100	60	RAD54L
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1097	2100	60	REL
1097	2100	60	RET
1097	2100	60	RICTOR
1097	2100	60	RNF43
1097	2100	60	ROS1
1097	2100	60	RPA1
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1097	2100	60	SH2B3
1097	2100	60	SMAD2
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1097	2100	60	SOX10
1097	2100	60	SOX2
1097	2100	60	SPEN
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1097	2100	60	SRC
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1097	2100	60	STAT4
1097	2100	60	STK11
1097	2100	60	SUFU
1097	2100	60	SYK
1097	2100	60	TBX3
1097	2100	60	TET2
1097	2100	60	TGFBR2
1097	2100	60	TIPARP
1097	2100	60	TMPRSS2
1097	2100	60	TNFAIP3
1097	2100	60	TNFRSF14
1097	2100	60	TOP1
1097	2100	60	TP53
1097	2100	60	TRRAP
1097	2100	60	Tuberous sclerosis complex 1 gene
1097	2100	60	Tuberous sclerosis complex 2 gene
1097	2100	60	TSHR
1097	2100	60	Von Hippel-Lindau
1097	2100	60	WISP3
1097	2100	60	WT1
1097	2100	60	XPO1
1097	2100	60	XRCC3
1097	2100	60	ZNF217
1098	2101	20	ABL1
1098	2101	20	AKT1
1098	2101	20	AKT2
1098	2101	20	AKT3
1098	2101	20	ALK
1098	2101	20	ALOX12B
1098	2101	20	APC
1098	2101	20	APCDD1
1098	2101	20	AR
1098	2101	20	ARAF
1098	2101	20	ARFRP1
1098	2101	20	ARID2
1098	2101	20	ASXL1
1098	2101	20	ATM
1098	2101	20	ATR
1098	2101	20	ATRX

1098	2101	20	AURKA
1098	2101	20	AURKB
1098	2101	20	AXL
1098	2101	20	BACH1
1098	2101	20	BAP1
1098	2101	20	BARD1
1098	2101	20	BCL-2
1098	2101	20	BCL2L2
1098	2101	20	BCL6
1098	2101	20	BCOR
1098	2101	20	BCORL1
1098	2101	20	BCR
1098	2101	20	BLM
1098	2101	20	BRAF
1098	2101	20	BRCA1
1098	2101	20	BRCA2
1098	2101	20	BRIP1
1098	2101	20	BTG1
1098	2101	20	BTK
1098	2101	20	C17orf39
1098	2101	20	CARD11
1098	2101	20	CASP8
1098	2101	20	CBFB
1098	2101	20	CBL
1098	2101	20	CCND2
1098	2101	20	CCND3
1098	2101	20	CCNE1
1098	2101	20	CD79A
1098	2101	20	CD79B
1098	2101	20	CDC73
1098	2101	20	CDH1
1098	2101	20	CDK12
1098	2101	20	Cyclin dependent kinase-4
1098	2101	20	CDK6
1098	2101	20	CDK8
1098	2101	20	CDKN1B
1098	2101	20	CDKN2A
1098	2101	20	CDKN2B
1098	2101	20	CDKN2C
1098	2101	20	CCAT/enhancer binding protein (CEBPA)

1098	2101	20	CHEK1
1098	2101	20	CHEK2
1098	2101	20	CHUK
1098	2101	20	CIC
1098	2101	20	CRBN
1098	2101	20	CREBBP
1098	2101	20	CRKL
1098	2101	20	CRLF2
1098	2101	20	CSF1R
1098	2101	20	CTCF
1098	2101	20	CTNNA1
1098	2101	20	CTNNB1
1098	2101	20	CUL4A
1098	2101	20	CUL4B
1098	2101	20	CYP17A1
1098	2101	20	DAXX
1098	2101	20	DDR2
1098	2101	20	DIS3
1098	2101	20	DNMT3A
1098	2101	20	DOT1L
1098	2101	20	Epidermal Growth Factor Receptor
1098	2101	20	EP300
1098	2101	20	EPHA3
1098	2101	20	EPHA5
1098	2101	20	EPHB1
1098	2101	20	ERBB2
1098	2101	20	ERBB3
1098	2101	20	ERBB4
1098	2101	20	ERG
1098	2101	20	Estrogen receptor 1
1098	2101	20	ETV1
1098	2101	20	ETV4
1098	2101	20	ETV5
1098	2101	20	ETV6
1098	2101	20	EWSR1
1098	2101	20	EZH2
1098	2101	20	FAM123B(WTX)
1098	2101	20	FAM46C
1098	2101	20	FANCA
1098	2101	20	FANCC

1098	2101	20	FANCD2
1098	2101	20	FANCE
1098	2101	20	FANCF
1098	2101	20	FANCG
1098	2101	20	FANCI
1098	2101	20	FANCL
1098	2101	20	FANCM
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1098	2101	20	FBXW7
1098	2101	20	FGF10
1098	2101	20	FGF12
1098	2101	20	FGF14
1098	2101	20	Fibroblast growth factor 19
1098	2101	20	Fibroblast growth factor 23
1098	2101	20	Fibroblast growth factor 3
1098	2101	20	FGF4
1098	2101	20	FGF6
1098	2101	20	FGF7
1098	2101	20	Fibroblast growth receptor 2
1098	2101	20	Fibroblast growth receptor 3
1098	2101	20	Fibroblast growth receptor 4
1098	2101	20	FLT1
1098	2101	20	Fms-like tyrosine kinase 3 (FLT3)
1098	2101	20	FLT4
1098	2101	20	FOXL2
1098	2101	20	GATA1
1098	2101	20	GATA2
1098	2101	20	GATA3
1098	2101	20	GNA11
1098	2101	20	GNA13
1098	2101	20	GNAQ
1098	2101	20	GNAS
1098	2101	20	GPR124
1098	2101	20	GRIN2A
1098	2101	20	GSK3B
1098	2101	20	Hepatocyte growth factor
1098	2101	20	HLA-A
1098	2101	20	HRAS
1098	2101	20	IDH1
1098	2101	20	IDH2

1098	2101	20	Insulin-like growth factor 1
1098	2101	20	Insulin growth factor 1 receptor
1098	2101	20	Insulin-like growth factor 2, also somatomedin A
1098	2101	20	IKBKE
1098	2101	20	IKZF1
1098	2101	20	IL7R
1098	2101	20	INHBA
1098	2101	20	IRF4
1098	2101	20	IRS2
1098	2101	20	JAK1
1098	2101	20	JAK2
1098	2101	20	JAK3
1098	2101	20	JUN
1098	2101	20	KDM5A
1098	2101	20	KDM5C
1098	2101	20	KDM6A
1098	2101	20	KDR
1098	2101	20	KEAP1
1098	2101	20	KIT
1098	2101	20	KLHL6
1098	2101	20	KRAS
1098	2101	20	LMO1
1098	2101	20	LRP1B
1098	2101	20	MAP2K1
1098	2101	20	MAP2K2
1098	2101	20	MAP2K4
1098	2101	20	MAP3K1
1098	2101	20	MAP3K13
1098	2101	20	MCL1
1098	2101	20	MDM2
1098	2101	20	MDM4
1098	2101	20	MED12
1098	2101	20	MEF2B
1098	2101	20	MEN1
1098	2101	20	MET
1098	2101	20	Microphthalmia associated transcription factor
1098	2101	20	MLH1
1098	2101	20	MLL
1098	2101	20	MLL2

1098	2101	20	MPL
1098	2101	20	MRE11A
1098	2101	20	MSH2
1098	2101	20	MSH6
1098	2101	20	MTOR
1098	2101	20	MUTYH
1098	2101	20	MYCL1
1098	2101	20	MYCN
1098	2101	20	MYD88
1098	2101	20	NBN
1098	2101	20	NCOR1
1098	2101	20	NF1
1098	2101	20	NF2
1098	2101	20	NFE2L2
1098	2101	20	NFKBIA
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1098	2101	20	NOTCH1
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1098	2101	20	NOTCH3
1098	2101	20	NOTCH4
1098	2101	20	Nucleophosmin (NPM1)
1098	2101	20	NRAS
1098	2101	20	NSD1
1098	2101	20	NTRK1
1098	2101	20	NTRK2
1098	2101	20	NTRK3
1098	2101	20	NUP93
1098	2101	20	PAK3
1098	2101	20	PAK7
1098	2101	20	PALB2
1098	2101	20	PARP1
1098	2101	20	PARP2
1098	2101	20	PARP3
1098	2101	20	PARP4
1098	2101	20	PAX5
1098	2101	20	PBRM1
1098	2101	20	PDGFRA
1098	2101	20	PDGFRB
1098	2101	20	PDK1
1098	2101	20	PIK3C2G

1098	2101	20	PIK3C3
1098	2101	20	PIK3CG
1098	2101	20	PIK3R1
1098	2101	20	PIK3R2
1098	2101	20	PMS2
1098	2101	20	PNRC1
1098	2101	20	PPP2R1A
1098	2101	20	PRDM1
1098	2101	20	PRKAR1A
1098	2101	20	PRKDC
1098	2101	20	PRSS8
1098	2101	20	PTCH1
1098	2101	20	Phosphatase and Tensin homolog
1098	2101	20	PTPN11
1098	2101	20	RAD50
1098	2101	20	RAD51
1098	2101	20	RAD51B
1098	2101	20	RAD51C
1098	2101	20	RAD51D
1098	2101	20	RAD52
1098	2101	20	RAD54L
1098	2101	20	RAF1
1098	2101	20	RARA
1098	2101	20	13q14(RB1)V
1098	2101	20	REL
1098	2101	20	RET
1098	2101	20	RICTOR
1098	2101	20	RNF43
1098	2101	20	ROS1
1098	2101	20	RPA1
1098	2101	20	RPTOR
1098	2101	20	RUNX1
1098	2101	20	RUNX1T1
1098	2101	20	SETD2
1098	2101	20	SF3B1
1098	2101	20	SH2B3
1098	2101	20	SMAD2
1098	2101	20	SMAD4
1098	2101	20	SMARCB1
1098	2101	20	SMARCD1

1098	2101	20	SMO
1098	2101	20	SOCS1
1098	2101	20	SOX10
1098	2101	20	SOX2
1098	2101	20	SPEN
1098	2101	20	SPOP
1098	2101	20	SRC
1098	2101	20	STAG2
1098	2101	20	STAT4
1098	2101	20	STK11
1098	2101	20	SUFU
1098	2101	20	SYK
1098	2101	20	TBX3
1098	2101	20	TET2
1098	2101	20	TGFBR2
1098	2101	20	TIPARP
1098	2101	20	TMPRSS2
1098	2101	20	TNFAIP3
1098	2101	20	TNFRSF14
1098	2101	20	TOP1
1098	2101	20	TP53
1098	2101	20	TRRAP
1098	2101	20	Tuberous sclerosis complex 1 gene
1098	2101	20	Tuberous sclerosis complex 2 gene
1098	2101	20	TSHR
1098	2101	20	Von Hippel-Lindau
1098	2101	20	WISP3
1098	2101	20	WT1
1098	2101	20	XPO1
1098	2101	20	XRCC3
1098	2101	20	ZNF217
1101	2104	40	ABL1
1101	2104	40	AKT1
1101	2104	40	AKT2
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1101	2104	40	ALK
1101	2104	40	ALOX12B
1101	2104	40	APC
1101	2104	40	APCDD1



1101	2104	40	AR
1101	2104	40	ARAF
1101	2104	40	ARFRP1
1101	2104	40	ARID1A
1101	2104	40	ARID2
1101	2104	40	ASXL1
1101	2104	40	ATM
1101	2104	40	ATR
1101	2104	40	ATRX
1101	2104	40	AURKA
1101	2104	40	AURKB
1101	2104	40	AXL
1101	2104	40	BACH1
1101	2104	40	BAP1
1101	2104	40	BARD1
1101	2104	40	BCL-2
1101	2104	40	BCL2L2
1101	2104	40	BCL6
1101	2104	40	BCOR
1101	2104	40	BCORL1
1101	2104	40	BCR
1101	2104	40	BLM
1101	2104	40	BRAF
1101	2104	40	BRCA1
1101	2104	40	BRCA2
1101	2104	40	BRIP1
1101	2104	40	BTG1
1101	2104	40	BTK
1101	2104	40	C17orf39
1101	2104	40	CARD11
1101	2104	40	CASP8
1101	2104	40	CBFB
1101	2104	40	CBL
1101	2104	40	CCND1
1101	2104	40	CCND2
1101	2104	40	CCND3
1101	2104	40	CCNE1
1101	2104	40	CD79A
1101	2104	40	CD79B
1101	2104	40	CDC73

1101	2104	40	CDK12
1101	2104	40	Cyclin dependent kinase-4
1101	2104	40	CDK6
1101	2104	40	CDK8
1101	2104	40	CDKN1B
1101	2104	40	CDKN2A
1101	2104	40	CDKN2B
1101	2104	40	CDKN2C
1101	2104	40	CCAT/enhancer binding protein (CEBPA)
1101	2104	40	CHEK1
1101	2104	40	CHEK2
1101	2104	40	CHUK
1101	2104	40	CIC
1101	2104	40	CRBN
1101	2104	40	CREBBP
1101	2104	40	CRKL
1101	2104	40	CRLF2
1101	2104	40	CSF1R
1101	2104	40	CTCF
1101	2104	40	CTNNA1
1101	2104	40	CTNNB1
1101	2104	40	CUL4A
1101	2104	40	CUL4B
1101	2104	40	CYP17A1
1101	2104	40	DAXX
1101	2104	40	DDR2
1101	2104	40	DIS3
1101	2104	40	DNMT3A
1101	2104	40	DOT1L
1101	2104	40	Epidermal Growth Factor Receptor
1101	2104	40	EMSY
1101	2104	40	EP300
1101	2104	40	EPHA3
1101	2104	40	EPHA5
1101	2104	40	EPHB1
1101	2104	40	ERBB2
1101	2104	40	ERBB3
1101	2104	40	ERBB4
1101	2104	40	ERG

1101	2104	40	Estrogen receptor 1
1101	2104	40	ETV1
1101	2104	40	ETV4
1101	2104	40	ETV5
1101	2104	40	ETV6
1101	2104	40	EWSR1
1101	2104	40	EZH2
1101	2104	40	FAM123B(WTX)
1101	2104	40	FAM46C
1101	2104	40	FANCA
1101	2104	40	FANCC
1101	2104	40	FANCD2
1101	2104	40	FANCE
1101	2104	40	FANCF
1101	2104	40	FANCG
1101	2104	40	FANCI
1101	2104	40	FANCL
1101	2104	40	FANCM
1101	2104	40	FAT3
1101	2104	40	FBXW7
1101	2104	40	FGF10
1101	2104	40	FGF12
1101	2104	40	FGF14
1101	2104	40	Fibroblast growth factor 19
1101	2104	40	Fibroblast growth factor 23
1101	2104	40	Fibroblast growth factor 3
1101	2104	40	FGF4
1101	2104	40	FGF6
1101	2104	40	FGF7
1101	2104	40	Fibroblast growth receptor 1
1101	2104	40	Fibroblast growth receptor 2
1101	2104	40	Fibroblast growth receptor 3
1101	2104	40	Fibroblast growth receptor 4
1101	2104	40	FLT1
1101	2104	40	Fms-like tyrosine kinase 3 (FLT3)
1101	2104	40	FLT4
1101	2104	40	FOXL2
1101	2104	40	GATA1
1101	2104	40	GATA2
1101	2104	40	GATA3

1101	2104	40	GNA11
1101	2104	40	GNA13
1101	2104	40	GNAQ
1101	2104	40	GNAS
1101	2104	40	GPR124
1101	2104	40	GRIN2A
1101	2104	40	GSK3B
1101	2104	40	Hepatocyte growth factor
1101	2104	40	HLA-A
1101	2104	40	HRAS
1101	2104	40	IDH1
1101	2104	40	IDH2
1101	2104	40	Insulin-like growth factor 1
1101	2104	40	Insulin growth factor 1 receptor
1101	2104	40	Insulin-like growth factor 2, also somatomedin A
1101	2104	40	IKBKE
1101	2104	40	IKZF1
1101	2104	40	IL7R
1101	2104	40	INHBA
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1101	2104	40	JAK2
1101	2104	40	JAK3
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1101	2104	40	LRP1B
1101	2104	40	MAP2K1
1101	2104	40	MAP2K2
1101	2104	40	MAP3K1
1101	2104	40	MAP3K13
1101	2104	40	MCL1

1101	2104	40	MDM2
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1101	2104	40	MED12
1101	2104	40	MEF2B
1101	2104	40	MEN1
1101	2104	40	MET
1101	2104	40	Microphthalmia associated transcription factor
1101	2104	40	MLH1
1101	2104	40	MLL
1101	2104	40	MLL2
1101	2104	40	MPL
1101	2104	40	MRE11A
1101	2104	40	MSH2
1101	2104	40	MSH6
1101	2104	40	MTOR
1101	2104	40	MUTYH
1101	2104	40	MYC
1101	2104	40	MYCL1
1101	2104	40	MYCN
1101	2104	40	MYD88
1101	2104	40	MYST3
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1101	2104	40	NOTCH2
1101	2104	40	NOTCH3
1101	2104	40	NOTCH4
1101	2104	40	Nucleophosmin (NPM1)
1101	2104	40	NRAS
1101	2104	40	NSD1
1101	2104	40	NTRK1
1101	2104	40	NTRK2
1101	2104	40	NTRK3
1101	2104	40	NUP93
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1101	2104	40	PARP3
1101	2104	40	PARP4
1101	2104	40	PAX5
1101	2104	40	PBRM1
1101	2104	40	PDGFRA
1101	2104	40	PDGFRB
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1101	2104	40	PIK3C2G
1101	2104	40	PIK3C3
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1101	2104	40	PNRC1
1101	2104	40	PPP2R1A
1101	2104	40	PRDM1
1101	2104	40	PRKAR1A
1101	2104	40	PRKDC
1101	2104	40	PRSS8
1101	2104	40	PTCH1
1101	2104	40	Phosphatase and Tensin homolog
1101	2104	40	PTPN11
1101	2104	40	RAD50
1101	2104	40	RAD51
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1101	2104	40	RAD51C
1101	2104	40	RAD51D
1101	2104	40	RAD52
1101	2104	40	RAD54L
1101	2104	40	RAF1
1101	2104	40	RARA
1101	2104	40	13q14(RB1)V
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1101	2104	40	RICTOR
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1101	2104	40	SF3B1
1101	2104	40	SH2B3
1101	2104	40	SMAD2
1101	2104	40	SMAD4
1101	2104	40	SMARCA4
1101	2104	40	SMARCB1
1101	2104	40	SMARCD1
1101	2104	40	SMO
1101	2104	40	SOCS1
1101	2104	40	SOX10
1101	2104	40	SOX2
1101	2104	40	SPEN
1101	2104	40	SPOP
1101	2104	40	SRC
1101	2104	40	STAG2
1101	2104	40	STAT4
1101	2104	40	STK11
1101	2104	40	SUFU
1101	2104	40	SYK
1101	2104	40	TBX3
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1101	2104	40	TMPRSS2
1101	2104	40	TNFAIP3
1101	2104	40	TNFRSF14
1101	2104	40	TOP1
1101	2104	40	TP53
1101	2104	40	TRRAP
1101	2104	40	Tuberous sclerosis complex 1 gene
1101	2104	40	Tuberous sclerosis complex 2 gene
1101	2104	40	TSHR
1101	2104	40	Von Hippel-Lindau

1101	2104	40	WISP3
1101	2104	40	WT1
1101	2104	40	XPO1
1101	2104	40	XRCC3
1101	2104	40	ZNF217
1101	2104	40	ZNF703
1102	2105	30	ABL1
1102	2105	30	AKT2
1102	2105	30	AKT3
1102	2105	30	ALK
1102	2105	30	ALOX12B
1102	2105	30	APC
1102	2105	30	APCDD1
1102	2105	30	AR
1102	2105	30	ARAF
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1102	2105	30	ARID1A
1102	2105	30	ARID2
1102	2105	30	ASXL1
1102	2105	30	ATM
1102	2105	30	ATR
1102	2105	30	ATRX
1102	2105	30	AURKA
1102	2105	30	AURKB
1102	2105	30	AXL
1102	2105	30	BACH1
1102	2105	30	BAP1
1102	2105	30	BARD1
1102	2105	30	BCL-2
1102	2105	30	BCL2L2
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1102	2105	30	BCOR
1102	2105	30	BCORL1
1102	2105	30	BCR
1102	2105	30	BLM
1102	2105	30	BRAF
1102	2105	30	BRCA1
1102	2105	30	BRCA2
1102	2105	30	BRIP1
1102	2105	30	BTG1



1102	2105	30	BTK
1102	2105	30	C17orf39
1102	2105	30	CARD11
1102	2105	30	CASP8
1102	2105	30	CBFB
1102	2105	30	CBL
1102	2105	30	CCND2
1102	2105	30	CCND3
1102	2105	30	CCNE1
1102	2105	30	CD79A
1102	2105	30	CD79B
1102	2105	30	CDC73
1102	2105	30	CDH1
1102	2105	30	CDK12
1102	2105	30	Cyclin dependent kinase-4
1102	2105	30	CDK6
1102	2105	30	CDK8
1102	2105	30	CDKN1B
1102	2105	30	CDKN2A
1102	2105	30	CDKN2B
1102	2105	30	CDKN2C
1102	2105	30	CCAT/enhancer binding protein (CEBPA)
1102	2105	30	CHEK1
1102	2105	30	CHEK2
1102	2105	30	CHUK
1102	2105	30	CIC
1102	2105	30	CRBN
1102	2105	30	CREBBP
1102	2105	30	CRKL
1102	2105	30	CRLF2
1102	2105	30	CSF1R
1102	2105	30	CTCF
1102	2105	30	CTNNA1
1102	2105	30	CTNNB1
1102	2105	30	CUL4A
1102	2105	30	CUL4B
1102	2105	30	CYP17A1
1102	2105	30	DAXX
1102	2105	30	DDR2
1102	2105	30	DIS3

1102	2105	30	DNMT3A
1102	2105	30	DOT1L
1102	2105	30	Epidermal Growth Factor Receptor
1102	2105	30	EMSY
1102	2105	30	EP300
1102	2105	30	EPHA3
1102	2105	30	EPHA5
1102	2105	30	EPHB1
1102	2105	30	ERBB2
1102	2105	30	ERBB3
1102	2105	30	ERBB4
1102	2105	30	ERG
1102	2105	30	Estrogen receptor 1
1102	2105	30	ETV1
1102	2105	30	ETV4
1102	2105	30	ETV5
1102	2105	30	ETV6
1102	2105	30	EWSR1
1102	2105	30	EZH2
1102	2105	30	FAM123B(WTX)
1102	2105	30	FAM46C
1102	2105	30	FANCA
1102	2105	30	FANCC
1102	2105	30	FANCD2
1102	2105	30	FANCE
1102	2105	30	FANCF
1102	2105	30	FANCG
1102	2105	30	FANCI
1102	2105	30	FANCL
1102	2105	30	FANCM
1102	2105	30	FAT3
1102	2105	30	FBXW7
1102	2105	30	FGF10
1102	2105	30	FGF12
1102	2105	30	FGF14
1102	2105	30	Fibroblast growth factor 23
1102	2105	30	FGF6
1102	2105	30	FGF7
1102	2105	30	Fibroblast growth receptor 1
1102	2105	30	Fibroblast growth receptor 2

1102	2105	30	Fibroblast growth receptor 3
1102	2105	30	Fibroblast growth receptor 4
1102	2105	30	FLT1
1102	2105	30	Fms-like tyrosine kinase 3 (FLT3)
1102	2105	30	FLT4
1102	2105	30	FOXL2
1102	2105	30	GATA1
1102	2105	30	GATA2
1102	2105	30	GATA3
1102	2105	30	GNA11
1102	2105	30	GNA13
1102	2105	30	GNAQ
1102	2105	30	GNAS
1102	2105	30	GPR124
1102	2105	30	GRIN2A
1102	2105	30	GSK3B
1102	2105	30	Hepatocyte growth factor
1102	2105	30	HLA-A
1102	2105	30	HRAS
1102	2105	30	IDH1
1102	2105	30	IDH2
1102	2105	30	Insulin-like growth factor 1
1102	2105	30	Insulin growth factor 1 receptor
1102	2105	30	Insulin-like growth factor 2, also somatomedin A
1102	2105	30	IKBKE
1102	2105	30	IKZF1
1102	2105	30	IL7R
1102	2105	30	INHBA
1102	2105	30	IRF4
1102	2105	30	IRS2
1102	2105	30	JAK1
1102	2105	30	JAK2
1102	2105	30	JAK3
1102	2105	30	JUN
1102	2105	30	KDM5A
1102	2105	30	KDM5C
1102	2105	30	KDM6A
1102	2105	30	KDR
1102	2105	30	KEAP1
1102	2105	30	KIT

1102	2105	30	KLHL6
1102	2105	30	KRAS
1102	2105	30	LMO1
1102	2105	30	LRP1B
1102	2105	30	MAP2K1
1102	2105	30	MAP2K2
1102	2105	30	MAP2K4
1102	2105	30	MAP3K1
1102	2105	30	MAP3K13
1102	2105	30	MCL1
1102	2105	30	MDM2
1102	2105	30	MDM4
1102	2105	30	MED12
1102	2105	30	MEF2B
1102	2105	30	MEN1
1102	2105	30	MET
1102	2105	30	Microphthalmia associated transcription factor
1102	2105	30	MLH1
1102	2105	30	MLL
1102	2105	30	MLL2
1102	2105	30	MPL
1102	2105	30	MRE11A
1102	2105	30	MSH2
1102	2105	30	MSH6
1102	2105	30	MTOR
1102	2105	30	MUTYH
1102	2105	30	MYCL1
1102	2105	30	MYCN
1102	2105	30	MYD88
1102	2105	30	MYST3
1102	2105	30	NBN
1102	2105	30	NCOR1
1102	2105	30	NF1
1102	2105	30	NF2
1102	2105	30	NFE2L2
1102	2105	30	NFKBIA
1102	2105	30	NKX2-1
1102	2105	30	NOTCH1
1102	2105	30	NOTCH2
1102	2105	30	NOTCH3

1102	2105	30	NOTCH4
1102	2105	30	Nucleophosmin (NPM1)
1102	2105	30	NRAS
1102	2105	30	NSD1
1102	2105	30	NTRK1
1102	2105	30	NTRK2
1102	2105	30	NTRK3
1102	2105	30	NUP93
1102	2105	30	PAK3
1102	2105	30	PAK7
1102	2105	30	PALB2
1102	2105	30	PARP1
1102	2105	30	PARP2
1102	2105	30	PARP3
1102	2105	30	PARP4
1102	2105	30	PAX5
1102	2105	30	PBRM1
1102	2105	30	PDGFRA
1102	2105	30	PDGFRB
1102	2105	30	PK1
1102	2105	30	PIK3C2G
1102	2105	30	PIK3C3
1102	2105	30	<i>PIK3CA</i>
1102	2105	30	PIK3CG
1102	2105	30	PIK3R1
1102	2105	30	PIK3R2
1102	2105	30	PMS2
1102	2105	30	PNRC1
1102	2105	30	PPP2R1A
1102	2105	30	PRDM1
1102	2105	30	PRKAR1A
1102	2105	30	PRKDC
1102	2105	30	PRSS8
1102	2105	30	PTCH1
1102	2105	30	Phosphatase and Tensin homolog
1102	2105	30	PTPN11
1102	2105	30	RAD50
1102	2105	30	RAD51
1102	2105	30	RAD51B
1102	2105	30	RAD51C

1102	2105	30	RAD51D
1102	2105	30	RAD52
1102	2105	30	RAD54L
1102	2105	30	RAF1
1102	2105	30	RARA
1102	2105	30	13q14(RB1)V
1102	2105	30	REL
1102	2105	30	RET
1102	2105	30	RICTOR
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1102	2105	30	RPA1
1102	2105	30	RPTOR
1102	2105	30	RUNX1
1102	2105	30	RUNX1T1
1102	2105	30	SETD2
1102	2105	30	SF3B1
1102	2105	30	SH2B3
1102	2105	30	SMAD2
1102	2105	30	SMAD4
1102	2105	30	SMARCA4
1102	2105	30	SMARCB1
1102	2105	30	SMARCD1
1102	2105	30	SMO
1102	2105	30	SOCS1
1102	2105	30	SOX10
1102	2105	30	SOX2
1102	2105	30	SPEN
1102	2105	30	SPOP
1102	2105	30	SRC
1102	2105	30	STAG2
1102	2105	30	STAT4
1102	2105	30	STK11
1102	2105	30	SUFU
1102	2105	30	SYK
1102	2105	30	TBX3
1102	2105	30	TET2
1102	2105	30	TGFBR2
1102	2105	30	TIPARP
1102	2105	30	TMPRSS2

1102	2105	30	TNFAIP3
1102	2105	30	TNFRSF14
1102	2105	30	TOP1
1102	2105	30	TRRAP
1102	2105	30	Tuberous sclerosis complex 1 gene
1102	2105	30	Tuberous sclerosis complex 2 gene
1102	2105	30	TSHR
1102	2105	30	Von Hippel-Lindau
1102	2105	30	WISP3
1102	2105	30	WT1
1102	2105	30	XPO1
1102	2105	30	XRCC3
1102	2105	30	ZNF217
1102	2105	30	ZNF703
1103	2106	20	ABL1
1103	2106	20	AKT1
1103	2106	20	AKT2
1103	2106	20	AKT3
1103	2106	20	ALK
1103	2106	20	ALOX12B
1103	2106	20	APC
1103	2106	20	APCDD1
1103	2106	20	AR
1103	2106	20	ARAF
1103	2106	20	ARFRP1
1103	2106	20	ARID1A
1103	2106	20	ARID2
1103	2106	20	ATM
1103	2106	20	ATR
1103	2106	20	ATRX
1103	2106	20	AURKA
1103	2106	20	AURKB
1103	2106	20	AXL
1103	2106	20	BACH1
1103	2106	20	BAP1
1103	2106	20	BARD1
1103	2106	20	BCL-2
1103	2106	20	BCL2L2
1103	2106	20	BCL6

1103	2106	20	BCOR
1103	2106	20	BCORL1
1103	2106	20	BCR
1103	2106	20	BLM
1103	2106	20	BRAF
1103	2106	20	BRCA1
1103	2106	20	BRCA2
1103	2106	20	BRIP1
1103	2106	20	BTG1
1103	2106	20	BTK
1103	2106	20	C17orf39
1103	2106	20	CARD11
1103	2106	20	CASP8
1103	2106	20	CBFB
1103	2106	20	CBL
1103	2106	20	CCND1
1103	2106	20	CCND2
1103	2106	20	CCND3
1103	2106	20	CCNE1
1103	2106	20	CD79A
1103	2106	20	CD79B
1103	2106	20	CDC73
1103	2106	20	CDH1
1103	2106	20	CDK12
1103	2106	20	Cyclin dependent kinase-4
1103	2106	20	CDK6
1103	2106	20	CDK8
1103	2106	20	CDKN1B
1103	2106	20	CDKN2A
1103	2106	20	CDKN2B
1103	2106	20	CDKN2C
1103	2106	20	CCAT/enhancer binding protein (CEBPA)
1103	2106	20	CHEK1
1103	2106	20	CHEK2
1103	2106	20	CHUK
1103	2106	20	CIC
1103	2106	20	CRBN
1103	2106	20	CREBBP
1103	2106	20	CRKL
1103	2106	20	CRLF2



1103	2106	20	CSF1R
1103	2106	20	CTCF
1103	2106	20	CTNNA1
1103	2106	20	CTNNB1
1103	2106	20	CUL4A
1103	2106	20	CUL4B
1103	2106	20	CYP17A1
1103	2106	20	DAXX
1103	2106	20	DDR2
1103	2106	20	DIS3
1103	2106	20	DNMT3A
1103	2106	20	DOT1L
1103	2106	20	Epidermal Growth Factor Receptor
1103	2106	20	EMSY
1103	2106	20	EP300
1103	2106	20	EPHA3
1103	2106	20	EPHA5
1103	2106	20	EPHB1
1103	2106	20	ERBB2
1103	2106	20	ERBB3
1103	2106	20	ERBB4
1103	2106	20	ERG
1103	2106	20	Estrogen receptor 1
1103	2106	20	ETV1
1103	2106	20	ETV4
1103	2106	20	ETV5
1103	2106	20	ETV6
1103	2106	20	EWSR1
1103	2106	20	EZH2
1103	2106	20	FAM123B(WTX)
1103	2106	20	FAM46C
1103	2106	20	FANCA
1103	2106	20	FANCC
1103	2106	20	FANCD2
1103	2106	20	FANCE
1103	2106	20	FANCF
1103	2106	20	FANCG
1103	2106	20	FANCI
1103	2106	20	FANCL
1103	2106	20	FANCM

1103	2106	20	FAT3
1103	2106	20	FBXW7
1103	2106	20	FGF10
1103	2106	20	FGF12
1103	2106	20	FGF14
1103	2106	20	Fibroblast growth factor 19
1103	2106	20	Fibroblast growth factor 23
1103	2106	20	Fibroblast growth factor 3
1103	2106	20	FGF4
1103	2106	20	FGF6
1103	2106	20	FGF7
1103	2106	20	Fibroblast growth receptor 1
1103	2106	20	Fibroblast growth receptor 2
1103	2106	20	Fibroblast growth receptor 3
1103	2106	20	Fibroblast growth receptor 4
1103	2106	20	FLT1
1103	2106	20	Fms-like tyrosine kinase 3 (FLT3)
1103	2106	20	FLT4
1103	2106	20	FOXL2
1103	2106	20	GATA1
1103	2106	20	GATA2
1103	2106	20	GNA11
1103	2106	20	GNA13
1103	2106	20	GNAQ
1103	2106	20	GNAS
1103	2106	20	GPR124
1103	2106	20	GRIN2A
1103	2106	20	GSK3B
1103	2106	20	Hepatocyte growth factor
1103	2106	20	HLA-A
1103	2106	20	HRAS
1103	2106	20	IDH1
1103	2106	20	IDH2
1103	2106	20	Insulin-like growth factor 1
1103	2106	20	Insulin growth factor 1 receptor
1103	2106	20	Insulin-like growth factor 2, also somatomedin A
1103	2106	20	IKBKE
1103	2106	20	IKZF1
1103	2106	20	IL7R
1103	2106	20	INHBA

1103	2106	20	IRF4
1103	2106	20	IRS2
1103	2106	20	JAK1
1103	2106	20	JAK2
1103	2106	20	JAK3
1103	2106	20	JUN
1103	2106	20	KDM5A
1103	2106	20	KDM5C
1103	2106	20	KDM6A
1103	2106	20	KDR
1103	2106	20	KEAP1
1103	2106	20	KIT
1103	2106	20	KLHL6
1103	2106	20	KRAS
1103	2106	20	LMO1
1103	2106	20	LRP1B
1103	2106	20	MAP2K1
1103	2106	20	MAP2K2
1103	2106	20	MAP2K4
1103	2106	20	MAP3K1
1103	2106	20	MAP3K13
1103	2106	20	MCL1
1103	2106	20	MDM2
1103	2106	20	MDM4
1103	2106	20	MED12
1103	2106	20	MEF2B
1103	2106	20	MEN1
1103	2106	20	MET
1103	2106	20	Microphthalmia associated transcription factor
1103	2106	20	MLH1
1103	2106	20	MLL
1103	2106	20	MLL2
1103	2106	20	MPL
1103	2106	20	MRE11A
1103	2106	20	MSH2
1103	2106	20	MSH6
1103	2106	20	MTOR
1103	2106	20	MUTYH
1103	2106	20	MYC
1103	2106	20	MYCL1

1103	2106	20	MYCN
1103	2106	20	MYD88
1103	2106	20	MYST3
1103	2106	20	NBN
1103	2106	20	NCOR1
1103	2106	20	NF1
1103	2106	20	NF2
1103	2106	20	NFE2L2
1103	2106	20	NFKBIA
1103	2106	20	NKX2-1
1103	2106	20	NOTCH1
1103	2106	20	NOTCH2
1103	2106	20	NOTCH3
1103	2106	20	NOTCH4
1103	2106	20	Nucleophosmin (NPM1)
1103	2106	20	NRAS
1103	2106	20	NSD1
1103	2106	20	NTRK1
1103	2106	20	NTRK2
1103	2106	20	NTRK3
1103	2106	20	NUP93
1103	2106	20	PAK3
1103	2106	20	PAK7
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1103	2106	20	PARP2
1103	2106	20	PARP3
1103	2106	20	PARP4
1103	2106	20	PAX5
1103	2106	20	PBRM1
1103	2106	20	PDGFRA
1103	2106	20	PDGFRB
1103	2106	20	PDK1
1103	2106	20	PIK3C2G
1103	2106	20	PIK3C3
1103	2106	20	PIK3CG
1103	2106	20	PIK3R1
1103	2106	20	PIK3R2
1103	2106	20	PMS2
1103	2106	20	PNRC1

1103	2106	20	PPP2R1A
1103	2106	20	PRDM1
1103	2106	20	PRKAR1A
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1103	2106	20	PRSS8
1103	2106	20	PTCH1
1103	2106	20	Phosphatase and Tensin homolog
1103	2106	20	PTPN11
1103	2106	20	RAD50
1103	2106	20	RAD51
1103	2106	20	RAD51B
1103	2106	20	RAD51C
1103	2106	20	RAD51D
1103	2106	20	RAD52
1103	2106	20	RAD54L
1103	2106	20	RAF1
1103	2106	20	RARA
1103	2106	20	13q14(RB1)V
1103	2106	20	REL
1103	2106	20	RET
1103	2106	20	RICTOR
1103	2106	20	RNF43
1103	2106	20	ROS1
1103	2106	20	RPA1
1103	2106	20	RPTOR
1103	2106	20	RUNX1
1103	2106	20	RUNX1T1
1103	2106	20	SETD2
1103	2106	20	SF3B1
1103	2106	20	SH2B3
1103	2106	20	SMAD2
1103	2106	20	SMAD4
1103	2106	20	SMARCA4
1103	2106	20	SMARCB1
1103	2106	20	SMARCD1
1103	2106	20	SMO
1103	2106	20	SOCS1
1103	2106	20	SOX10
1103	2106	20	SOX2
1103	2106	20	SPEN

1103	2106	20	SPOP
1103	2106	20	SRC
1103	2106	20	STAG2
1103	2106	20	STAT4
1103	2106	20	STK11
1103	2106	20	SUFU
1103	2106	20	SYK
1103	2106	20	TBX3
1103	2106	20	TET2
1103	2106	20	TGFBR2
1103	2106	20	TIPARP
1103	2106	20	TMPRSS2
1103	2106	20	TNFAIP3
1103	2106	20	TNFRSF14
1103	2106	20	TOP1
1103	2106	20	TRRAP
1103	2106	20	Tuberous sclerosis complex 1 gene
1103	2106	20	Tuberous sclerosis complex 2 gene
1103	2106	20	TSHR
1103	2106	20	Von Hippel-Lindau
1103	2106	20	WISP3
1103	2106	20	WT1
1103	2106	20	XPO1
1103	2106	20	XRCC3
1103	2106	20	ZNF217
1103	2106	20	ZNF703
1103		20	<i>PIK3CA</i>
1103		20	ASXL1
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1104	2107	25	AKT1
1104	2107	25	AKT2
1104	2107	25	AKT3
1104	2107	25	ALK
1104	2107	25	ALOX12B
1104	2107	25	APC
1104	2107	25	APCDD1
1104	2107	25	AR
1104	2107	25	ARAF
1104	2107	25	ARFRP1

1104	2107	25	ARID1A
1104	2107	25	ARID2
1104	2107	25	ASXL1
1104	2107	25	ATM
1104	2107	25	ATR
1104	2107	25	ATRX
1104	2107	25	AURKA
1104	2107	25	AURKB
1104	2107	25	AXL
1104	2107	25	BACH1
1104	2107	25	BAP1
1104	2107	25	BARD1
1104	2107	25	BCL-2
1104	2107	25	BCL2L2
1104	2107	25	BCL6
1104	2107	25	BCOR
1104	2107	25	BCORL1
1104	2107	25	BCR
1104	2107	25	BLM
1104	2107	25	BRAF
1104	2107	25	BRCA1
1104	2107	25	BRCA2
1104	2107	25	BRIP1
1104	2107	25	BTG1
1104	2107	25	BTK
1104	2107	25	C17orf39
1104	2107	25	CARD11
1104	2107	25	CASP8
1104	2107	25	CBFB
1104	2107	25	CBL
1104	2107	25	CCND1
1104	2107	25	CCND2
1104	2107	25	CCND3
1104	2107	25	CCNE1
1104	2107	25	CD79A
1104	2107	25	CD79B
1104	2107	25	CDC73
1104	2107	25	CDK12
1104	2107	25	Cyclin dependent kinase-4
1104	2107	25	CDK6

1104	2107	25	CDK8
1104	2107	25	CDKN1B
1104	2107	25	CDKN2A
1104	2107	25	CDKN2B
1104	2107	25	CDKN2C
1104	2107	25	CCAT/enhancer binding protein (CEBPA)
1104	2107	25	CHEK1
1104	2107	25	CHEK2
1104	2107	25	CHUK
1104	2107	25	CIC
1104	2107	25	CRBN
1104	2107	25	CREBBP
1104	2107	25	CRKL
1104	2107	25	CRLF2
1104	2107	25	CSF1R
1104	2107	25	CTCF
1104	2107	25	CTNNA1
1104	2107	25	CTNNB1
1104	2107	25	CUL4A
1104	2107	25	CUL4B
1104	2107	25	CYP17A1
1104	2107	25	DAXX
1104	2107	25	DDR2
1104	2107	25	DIS3
1104	2107	25	DNMT3A
1104	2107	25	DOT1L
1104	2107	25	Epidermal Growth Factor Receptor
1104	2107	25	EMSY
1104	2107	25	EP300
1104	2107	25	EPHA3
1104	2107	25	EPHA5
1104	2107	25	EPHB1
1104	2107	25	ERBB2
1104	2107	25	ERBB3
1104	2107	25	ERBB4
1104	2107	25	ERG
1104	2107	25	Estrogen receptor 1
1104	2107	25	ETV1
1104	2107	25	ETV4



1104	2107	25	ETV5
1104	2107	25	ETV6
1104	2107	25	EWSR1
1104	2107	25	EZH2
1104	2107	25	FAM123B(WTX)
1104	2107	25	FAM46C
1104	2107	25	FANCA
1104	2107	25	FANCC
1104	2107	25	FANCD2
1104	2107	25	FANCE
1104	2107	25	FANCF
1104	2107	25	FANCG
1104	2107	25	FANCI
1104	2107	25	FANCL
1104	2107	25	FANCM
1104	2107	25	FAT3
1104	2107	25	FBXW7
1104	2107	25	FGF10
1104	2107	25	FGF12
1104	2107	25	FGF14
1104	2107	25	Fibroblast growth factor 19
1104	2107	25	Fibroblast growth factor 23
1104	2107	25	Fibroblast growth factor 3
1104	2107	25	FGF4
1104	2107	25	FGF6
1104	2107	25	FGF7
1104	2107	25	Fibroblast growth receptor 1
1104	2107	25	Fibroblast growth receptor 2
1104	2107	25	Fibroblast growth receptor 3
1104	2107	25	Fibroblast growth receptor 4
1104	2107	25	FLT1
1104	2107	25	Fms-like tyrosine kinase 3 (FLT3)
1104	2107	25	FLT4
1104	2107	25	FOXL2
1104	2107	25	GATA1
1104	2107	25	GATA2
1104	2107	25	GATA3
1104	2107	25	GNA11
1104	2107	25	GNA13
1104	2107	25	GNAQ

1104	2107	25	GNAS
1104	2107	25	GPR124
1104	2107	25	GRIN2A
1104	2107	25	GSK3B
1104	2107	25	Hepatocyte growth factor
1104	2107	25	HLA-A
1104	2107	25	HRAS
1104	2107	25	IDH1
1104	2107	25	IDH2
1104	2107	25	Insulin-like growth factor 1
1104	2107	25	Insulin growth factor 1 receptor
1104	2107	25	Insulin-like growth factor 2, also somatomedin A
1104	2107	25	IKBKE
1104	2107	25	IKZF1
1104	2107	25	IL7R
1104	2107	25	INHBA
1104	2107	25	IRF4
1104	2107	25	IRS2
1104	2107	25	JAK1
1104	2107	25	JAK2
1104	2107	25	JAK3
1104	2107	25	JUN
1104	2107	25	KDM5A
1104	2107	25	KDM5C
1104	2107	25	KDM6A
1104	2107	25	KDR
1104	2107	25	KEAP1
1104	2107	25	KIT
1104	2107	25	KLHL6
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1104	2107	25	LMO1
1104	2107	25	LRP1B
1104	2107	25	MAP2K1
1104	2107	25	MAP2K2
1104	2107	25	MAP2K4
1104	2107	25	MAP3K1
1104	2107	25	MAP3K13
1104	2107	25	MCL1
1104	2107	25	MDM2
1104	2107	25	MDM4

1104	2107	25	MED12
1104	2107	25	MEF2B
1104	2107	25	MEN1
1104	2107	25	MET
1104	2107	25	Microphthalmia associated transcription factor
1104	2107	25	MLH1
1104	2107	25	MLL
1104	2107	25	MLL2
1104	2107	25	MPL
1104	2107	25	MRE11A
1104	2107	25	MSH2
1104	2107	25	MSH6
1104	2107	25	MTOR
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1104	2107	25	MYCN
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1104	2107	25	NF1
1104	2107	25	NF2
1104	2107	25	NFE2L2
1104	2107	25	NFKBIA
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1104	2107	25	NOTCH3
1104	2107	25	NOTCH4
1104	2107	25	Nucleophosmin (NPM1)
1104	2107	25	NRAS
1104	2107	25	NSD1
1104	2107	25	NTRK1
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1104	2107	25	NTRK3
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1104	2107	25	PAK3
1104	2107	25	PAK7
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1104	2107	25	PARP1
1104	2107	25	PARP2
1104	2107	25	PARP3
1104	2107	25	PARP4
1104	2107	25	PAX5
1104	2107	25	PBRM1
1104	2107	25	PDGFRA
1104	2107	25	PDGFRB
1104	2107	25	PDK1
1104	2107	25	PIK3C2G
1104	2107	25	PIK3C3
1104	2107	25	<i>PIK3CA</i>
1104	2107	25	PIK3CG
1104	2107	25	PIK3R1
1104	2107	25	PIK3R2
1104	2107	25	PMS2
1104	2107	25	PNRC1
1104	2107	25	PPP2R1A
1104	2107	25	PRDM1
1104	2107	25	PRKAR1A
1104	2107	25	PRKDC
1104	2107	25	PRSS8
1104	2107	25	PTCH1
1104	2107	25	Phosphatase and Tensin homolog
1104	2107	25	PTPN11
1104	2107	25	RAD50
1104	2107	25	RAD51
1104	2107	25	RAD51B
1104	2107	25	RAD51C
1104	2107	25	RAD51D
1104	2107	25	RAD52
1104	2107	25	RAD54L
1104	2107	25	RAF1
1104	2107	25	RARA
1104	2107	25	13q14(RB1)V
1104	2107	25	REL
1104	2107	25	RET
1104	2107	25	RICTOR
1104	2107	25	RNF43
1104	2107	25	ROS1

1104	2107	25	RPA1
1104	2107	25	RPTOR
1104	2107	25	RUNX1
1104	2107	25	RUNX1T1
1104	2107	25	SETD2
1104	2107	25	SF3B1
1104	2107	25	SH2B3
1104	2107	25	SMAD2
1104	2107	25	SMAD4
1104	2107	25	SMARCA4
1104	2107	25	SMARCB1
1104	2107	25	SMARCD1
1104	2107	25	SMO
1104	2107	25	SOCS1
1104	2107	25	SOX10
1104	2107	25	SOX2
1104	2107	25	SPEN
1104	2107	25	SPOP
1104	2107	25	SRC
1104	2107	25	STAG2
1104	2107	25	STAT4
1104	2107	25	STK11
1104	2107	25	SUFU
1104	2107	25	SYK
1104	2107	25	TBX3
1104	2107	25	TET2
1104	2107	25	TGFBR2
1104	2107	25	TIPARP
1104	2107	25	TMPRSS2
1104	2107	25	TNFAIP3
1104	2107	25	TNFRSF14
1104	2107	25	TOP1
1104	2107	25	TP53
1104	2107	25	TRRAP
1104	2107	25	Tuberous sclerosis complex 1 gene
1104	2107	25	Tuberous sclerosis complex 2 gene
1104	2107	25	TSHR
1104	2107	25	Von Hippel-Lindau
1104	2107	25	WISP3

1104	2107	25	WT1
1104	2107	25	XPO1
1104	2107	25	XRCC3
1104	2107	25	ZNF217
1104	2107	25	ZNF703
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1106	2109	20	APC
1106	2109	20	APCDD1
1106	2109	20	AR
1106	2109	20	ARAF
1106	2109	20	ARFRP1
1106	2109	20	ARID1A
1106	2109	20	ARID2
1106	2109	20	ASXL1
1106	2109	20	ATM
1106	2109	20	ATR
1106	2109	20	ATRX
1106	2109	20	AURKA
1106	2109	20	AURKB
1106	2109	20	AXL
1106	2109	20	BACH1
1106	2109	20	BAP1
1106	2109	20	BARD1
1106	2109	20	BCL-2
1106	2109	20	BCL2L2
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1106	2109	20	BLM
1106	2109	20	BRAF
1106	2109	20	BRCA1
1106	2109	20	BRCA2
1106	2109	20	BRIP1
1106	2109	20	BTG1

1106	2109	20	BTK
1106	2109	20	C17orf39
1106	2109	20	CARD11
1106	2109	20	CASP8
1106	2109	20	CBFB
1106	2109	20	CBL
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1106	2109	20	CCND3
1106	2109	20	CCNE1
1106	2109	20	CD79A
1106	2109	20	CD79B
1106	2109	20	CDC73
1106	2109	20	CDK12
1106	2109	20	Cyclin dependent kinase-4
1106	2109	20	CDK6
1106	2109	20	CDK8
1106	2109	20	CDKN1B
1106	2109	20	CDKN2A
1106	2109	20	CDKN2B
1106	2109	20	CDKN2C
1106	2109	20	CCAT/enhancer binding protein (CEBPA)
1106	2109	20	CHEK1
1106	2109	20	CHEK2
1106	2109	20	CHUK
1106	2109	20	CIC
1106	2109	20	CRBN
1106	2109	20	CREBBP
1106	2109	20	CRKL
1106	2109	20	CRLF2
1106	2109	20	CSF1R
1106	2109	20	CTCF
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1106	2109	20	CTNNB1
1106	2109	20	CUL4A
1106	2109	20	CUL4B
1106	2109	20	CYP17A1
1106	2109	20	DAXX
1106	2109	20	DDR2
1106	2109	20	DIS3

1106	2109	20	DNMT3A
1106	2109	20	DOT1L
1106	2109	20	Epidermal Growth Factor Receptor
1106	2109	20	EMSY
1106	2109	20	EP300
1106	2109	20	EPHA3
1106	2109	20	EPHA5
1106	2109	20	EPHB1
1106	2109	20	ERBB2
1106	2109	20	ERBB3
1106	2109	20	ERBB4
1106	2109	20	ERG
1106	2109	20	Estrogen receptor 1
1106	2109	20	ETV1
1106	2109	20	ETV4
1106	2109	20	ETV5
1106	2109	20	ETV6
1106	2109	20	EWSR1
1106	2109	20	EZH2
1106	2109	20	FAM123B(WTX)
1106	2109	20	FAM46C
1106	2109	20	FANCA
1106	2109	20	FANCC
1106	2109	20	FANCD2
1106	2109	20	FANCE
1106	2109	20	FANCF
1106	2109	20	FANCG
1106	2109	20	FANCI
1106	2109	20	FANCL
1106	2109	20	FANCM
1106	2109	20	FAT3
1106	2109	20	FBXW7
1106	2109	20	FGF10
1106	2109	20	FGF12
1106	2109	20	FGF14
1106	2109	20	Fibroblast growth factor 19
1106	2109	20	Fibroblast growth factor 23
1106	2109	20	Fibroblast growth factor 3
1106	2109	20	FGF4
1106	2109	20	FGF6



1106	2109	20	FGF7
1106	2109	20	Fibroblast growth receptor 1
1106	2109	20	Fibroblast growth receptor 2
1106	2109	20	Fibroblast growth receptor 3
1106	2109	20	Fibroblast growth receptor 4
1106	2109	20	FLT1
1106	2109	20	Fms-like tyrosine kinase 3 (FLT3)
1106	2109	20	FLT4
1106	2109	20	FOXL2
1106	2109	20	GATA1
1106	2109	20	GATA2
1106	2109	20	GATA3
1106	2109	20	GNA11
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1106	2109	20	GPR124
1106	2109	20	GRIN2A
1106	2109	20	GSK3B
1106	2109	20	Hepatocyte growth factor
1106	2109	20	HLA-A
1106	2109	20	HRAS
1106	2109	20	IDH1
1106	2109	20	IDH2
1106	2109	20	Insulin-like growth factor 1
1106	2109	20	Insulin growth factor 1 receptor
1106	2109	20	Insulin-like growth factor 2, also somatomedin A
1106	2109	20	IKBKE
1106	2109	20	IKZF1
1106	2109	20	IL7R
1106	2109	20	INHBA
1106	2109	20	IRF4
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1106	2109	20	JAK1
1106	2109	20	JAK2
1106	2109	20	JAK3
1106	2109	20	JUN
1106	2109	20	KDM5A
1106	2109	20	KDM5C
1106	2109	20	KDM6A

1106	2109	20	KDR
1106	2109	20	KEAP1
1106	2109	20	KIT
1106	2109	20	KLHL6
1106	2109	20	KRAS
1106	2109	20	LMO1
1106	2109	20	LRP1B
1106	2109	20	MAP2K1
1106	2109	20	MAP2K2
1106	2109	20	MAP2K4
1106	2109	20	MAP3K1
1106	2109	20	MAP3K13
1106	2109	20	MCL1
1106	2109	20	MDM2
1106	2109	20	MDM4
1106	2109	20	MED12
1106	2109	20	MEF2B
1106	2109	20	MEN1
1106	2109	20	MET
1106	2109	20	Microphthalmia associated transcription factor
1106	2109	20	MLH1
1106	2109	20	MLL
1106	2109	20	MLL2
1106	2109	20	MPL
1106	2109	20	MRE11A
1106	2109	20	MSH2
1106	2109	20	MSH6
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1106	2109	20	MUTYH
1106	2109	20	MYC
1106	2109	20	MYCL1
1106	2109	20	MYCN
1106	2109	20	MYD88
1106	2109	20	MYST3
1106	2109	20	NBN
1106	2109	20	NCOR1
1106	2109	20	NF1
1106	2109	20	NF2
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1106	2109	20	NKX2-1
1106	2109	20	NOTCH1
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1106	2109	20	NOTCH3
1106	2109	20	NOTCH4
1106	2109	20	Nucleophosmin (NPM1)
1106	2109	20	NRAS
1106	2109	20	NSD1
1106	2109	20	NTRK1
1106	2109	20	NTRK2
1106	2109	20	NTRK3
1106	2109	20	NUP93
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1106	2109	20	PDK1
1106	2109	20	PIK3C2G
1106	2109	20	PIK3C3
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1106	2109	20	PIK3R1
1106	2109	20	PIK3R2
1106	2109	20	PMS2
1106	2109	20	PNRC1
1106	2109	20	PPP2R1A
1106	2109	20	PRDM1
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1106	2109	20	PRSS8
1106	2109	20	PTCH1
1106	2109	20	Phosphatase and Tensin homolog
1106	2109	20	PTPN11
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1106	2109	20	RAD51
1106	2109	20	RAD51B
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1106	2109	20	RAD52
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1106	2109	20	RPA1
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1106	2109	20	RUNX1
1106	2109	20	RUNX1T1
1106	2109	20	SETD2
1106	2109	20	SF3B1
1106	2109	20	SH2B3
1106	2109	20	SMAD2
1106	2109	20	SMAD4
1106	2109	20	SMARCA4
1106	2109	20	SMARCB1
1106	2109	20	SMARCD1
1106	2109	20	SMO
1106	2109	20	SOCS1
1106	2109	20	SOX10
1106	2109	20	SOX2
1106	2109	20	SPEN
1106	2109	20	SPOP
1106	2109	20	SRC
1106	2109	20	STAG2
1106	2109	20	STAT4
1106	2109	20	STK11
1106	2109	20	SUFU
1106	2109	20	SYK
1106	2109	20	TBX3
1106	2109	20	TET2

1106	2109	20	TGFBR2
1106	2109	20	TIPARP
1106	2109	20	TMPRSS2
1106	2109	20	TNFAIP3
1106	2109	20	TNFRSF14
1106	2109	20	TOP1
1106	2109	20	TP53
1106	2109	20	TRRAP
1106	2109	20	Tuberous sclerosis complex 1 gene
1106	2109	20	Tuberous sclerosis complex 2 gene
1106	2109	20	TSHR
1106	2109	20	Von Hippel-Lindau
1106	2109	20	WISP3
1106	2109	20	WT1
1106	2109	20	XPO1
1106	2109	20	XRCC3
1106	2109	20	ZNF217
1106	2109	20	ZNF703
1107	2110	30	ABL1
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1107	2110	30	APC
1107	2110	30	APCDD1
1107	2110	30	AR
1107	2110	30	ARAF
1107	2110	30	ARFRP1
1107	2110	30	ARID1A
1107	2110	30	ARID2
1107	2110	30	ASXL1
1107	2110	30	ATM
1107	2110	30	ATR
1107	2110	30	ATRX
1107	2110	30	AURKA
1107	2110	30	AURKB
1107	2110	30	AXL
1107	2110	30	BACH1

1107	2110	30	BAP1
1107	2110	30	BARD1
1107	2110	30	BCL-2
1107	2110	30	BCL2L2
1107	2110	30	BCL6
1107	2110	30	BCOR
1107	2110	30	BCORL1
1107	2110	30	BCR
1107	2110	30	BLM
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1107	2110	30	BRCA2
1107	2110	30	BRIP1
1107	2110	30	BTG1
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1107	2110	30	CARD11
1107	2110	30	CASP8
1107	2110	30	CBFB
1107	2110	30	CBL
1107	2110	30	CCND1
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1107	2110	30	CCNE1
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1107	2110	30	CD79B
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1107	2110	30	CDK6
1107	2110	30	CDK8
1107	2110	30	CDKN1B
1107	2110	30	CDKN2A
1107	2110	30	CDKN2B
1107	2110	30	CDKN2C
1107	2110	30	CCAT/enhancer binding protein (CEBPA)
1107	2110	30	CHEK1
1107	2110	30	CHEK2
1107	2110	30	CHUK

1107	2110	30	CIC
1107	2110	30	CRBN
1107	2110	30	CREBBP
1107	2110	30	CRKL
1107	2110	30	CRLF2
1107	2110	30	CSF1R
1107	2110	30	CTCF
1107	2110	30	CTNNA1
1107	2110	30	CTNNB1
1107	2110	30	CUL4A
1107	2110	30	CUL4B
1107	2110	30	CYP17A1
1107	2110	30	DAXX
1107	2110	30	DDR2
1107	2110	30	DIS3
1107	2110	30	DNMT3A
1107	2110	30	DOT1L
1107	2110	30	Epidermal Growth Factor Receptor
1107	2110	30	EMSY
1107	2110	30	EP300
1107	2110	30	EPHA3
1107	2110	30	EPHA5
1107	2110	30	EPHB1
1107	2110	30	ERBB2
1107	2110	30	ERBB3
1107	2110	30	ERBB4
1107	2110	30	ERG
1107	2110	30	Estrogen receptor 1
1107	2110	30	ETV1
1107	2110	30	ETV4
1107	2110	30	ETV5
1107	2110	30	ETV6
1107	2110	30	EWSR1
1107	2110	30	EZH2
1107	2110	30	FAM123B(WTX)
1107	2110	30	FAM46C
1107	2110	30	FANCA
1107	2110	30	FANCC
1107	2110	30	FANCD2
1107	2110	30	FANCE

1107	2110	30	FANCF
1107	2110	30	FANCG
1107	2110	30	FANCI
1107	2110	30	FANCL
1107	2110	30	FANCM
1107	2110	30	FAT3
1107	2110	30	FBXW7
1107	2110	30	FGF10
1107	2110	30	FGF12
1107	2110	30	FGF14
1107	2110	30	Fibroblast growth factor 19
1107	2110	30	Fibroblast growth factor 23
1107	2110	30	Fibroblast growth factor 3
1107	2110	30	FGF4
1107	2110	30	FGF6
1107	2110	30	FGF7
1107	2110	30	Fibroblast growth receptor 1
1107	2110	30	Fibroblast growth receptor 2
1107	2110	30	Fibroblast growth receptor 3
1107	2110	30	Fibroblast growth receptor 4
1107	2110	30	FLT1
1107	2110	30	Fms-like tyrosine kinase 3 (FLT3)
1107	2110	30	FLT4
1107	2110	30	FOXL2
1107	2110	30	GATA1
1107	2110	30	GATA2
1107	2110	30	GATA3
1107	2110	30	GNA11
1107	2110	30	GNA13
1107	2110	30	GNAQ
1107	2110	30	GNAS
1107	2110	30	GPR124
1107	2110	30	GRIN2A
1107	2110	30	GSK3B
1107	2110	30	Hepatocyte growth factor
1107	2110	30	HLA-A
1107	2110	30	HRAS
1107	2110	30	IDH1
1107	2110	30	IDH2
1107	2110	30	Insulin-like growth factor 1



1107	2110	30	Insulin growth factor 1 receptor
1107	2110	30	Insulin-like growth factor 2, also somatomedin A
1107	2110	30	IKBKE
1107	2110	30	IKZF1
1107	2110	30	IL7R
1107	2110	30	INHBA
1107	2110	30	IRF4
1107	2110	30	IRS2
1107	2110	30	JAK1
1107	2110	30	JAK2
1107	2110	30	JAK3
1107	2110	30	JUN
1107	2110	30	KDM5A
1107	2110	30	KDM5C
1107	2110	30	KDM6A
1107	2110	30	KDR
1107	2110	30	KEAP1
1107	2110	30	KIT
1107	2110	30	KLHL6
1107	2110	30	KRAS
1107	2110	30	LMO1
1107	2110	30	LRP1B
1107	2110	30	MAP2K1
1107	2110	30	MAP2K2
1107	2110	30	MAP2K4
1107	2110	30	MAP3K1
1107	2110	30	MAP3K13
1107	2110	30	MCL1
1107	2110	30	MDM2
1107	2110	30	MDM4
1107	2110	30	MED12
1107	2110	30	MEF2B
1107	2110	30	MEN1
1107	2110	30	MET
1107	2110	30	Microphthalmia associated transcription factor
1107	2110	30	MLH1
1107	2110	30	MLL
1107	2110	30	MLL2
1107	2110	30	MPL

1107	2110	30	MRE11A
1107	2110	30	MSH2
1107	2110	30	MSH6
1107	2110	30	MTOR
1107	2110	30	MUTYH
1107	2110	30	MYC
1107	2110	30	MYCL1
1107	2110	30	MYCN
1107	2110	30	MYD88
1107	2110	30	MYST3
1107	2110	30	NBN
1107	2110	30	NCOR1
1107	2110	30	NF1
1107	2110	30	NF2
1107	2110	30	NFE2L2
1107	2110	30	NFKBIA
1107	2110	30	NKX2-1
1107	2110	30	NOTCH1
1107	2110	30	NOTCH2
1107	2110	30	NOTCH3
1107	2110	30	NOTCH4
1107	2110	30	Nucleophosmin (NPM1)
1107	2110	30	NRAS
1107	2110	30	NSD1
1107	2110	30	NTRK1
1107	2110	30	NTRK2
1107	2110	30	NTRK3
1107	2110	30	NUP93
1107	2110	30	PAK3
1107	2110	30	PAK7
1107	2110	30	PALB2
1107	2110	30	PARP1
1107	2110	30	PARP2
1107	2110	30	PARP3
1107	2110	30	PARP4
1107	2110	30	PAX5
1107	2110	30	PBRM1
1107	2110	30	PDGFRA
1107	2110	30	PDGFRB
1107	2110	30	PKD1

1107	2110	30	PIK3C2G
1107	2110	30	PIK3C3
1107	2110	30	PIK3CG
1107	2110	30	PIK3R1
1107	2110	30	PIK3R2
1107	2110	30	PMS2
1107	2110	30	PNRC1
1107	2110	30	PPP2R1A
1107	2110	30	PRDM1
1107	2110	30	PRKAR1A
1107	2110	30	PRKDC
1107	2110	30	PRSS8
1107	2110	30	PTCH1
1107	2110	30	Phosphatase and Tensin homolog
1107	2110	30	PTPN11
1107	2110	30	RAD50
1107	2110	30	RAD51
1107	2110	30	RAD51B
1107	2110	30	RAD51C
1107	2110	30	RAD51D
1107	2110	30	RAD52
1107	2110	30	RAD54L
1107	2110	30	RAF1
1107	2110	30	RARA
1107	2110	30	13q14(RB1)V
1107	2110	30	REL
1107	2110	30	RET
1107	2110	30	RICTOR
1107	2110	30	RNF43
1107	2110	30	ROS1
1107	2110	30	RPA1
1107	2110	30	RPTOR
1107	2110	30	RUNX1
1107	2110	30	RUNX1T1
1107	2110	30	SETD2
1107	2110	30	SF3B1
1107	2110	30	SH2B3
1107	2110	30	SMAD2
1107	2110	30	SMAD4
1107	2110	30	SMARCA4

1107	2110	30	SMARCB1
1107	2110	30	SMARCD1
1107	2110	30	SMO
1107	2110	30	SOCS1
1107	2110	30	SOX10
1107	2110	30	SOX2
1107	2110	30	SPEN
1107	2110	30	SPOP
1107	2110	30	SRC
1107	2110	30	STAG2
1107	2110	30	STAT4
1107	2110	30	STK11
1107	2110	30	SUFU
1107	2110	30	SYK
1107	2110	30	TBX3
1107	2110	30	TET2
1107	2110	30	TGFBR2
1107	2110	30	TIPARP
1107	2110	30	TMPRSS2
1107	2110	30	TNFAIP3
1107	2110	30	TNFRSF14
1107	2110	30	TOP1
1107	2110	30	TRRAP
1107	2110	30	Tuberous sclerosis complex 1 gene
1107	2110	30	Tuberous sclerosis complex 2 gene
1107	2110	30	TSHR
1107	2110	30	Von Hippel-Lindau
1107	2110	30	WISP3
1107	2110	30	WT1
1107	2110	30	XPO1
1107	2110	30	XRCC3
1107	2110	30	ZNF217
1107	2110	30	ZNF703

ID, identification; NGS, next-generation sequencing.