

Probe Element Reference	Gene	CGI_Coordinate	Chromosor	Start	End	Feature type
cg24751284	APEX1	CGI:chr14:20454581-20455864	chr14	20455582	20455583	S_shore
cg01084685	APEX1	CGI:chr14:20454581-20455864	chr14	20455118	20455119	island
cg01213928	APEX1	CGI:chr14:20454581-20455864	chr14	20454526	20454527	island
cg01976176	APEX1	CGI:chr14:20454581-20455864	chr14	20454754	20454755	N_shore
cg02938524	APEX1	CGI:chr14:20454581-20455864	chr14	20455641	20455642	island
cg05250969	APEX1	CGI:chr14:20454581-20455864	chr14	20455041	20455042	island
cg11821824	APEX1	CGI:chr14:20454581-20455864	chr14	20455655	20455656	island
cg11869215	APEX1	CGI:chr14:20454581-20455864	chr14	20456210	20456211	island
cg16205058	APEX1	CGI:chr14:20454581-20455864	chr14	20455327	20455328	S_shore
cg18975638	APEX1	CGI:chr14:20454581-20455864	chr14	20455312	20455313	island
cg21337430	APEX1	CGI:chr14:20454581-20455864	chr14	20454756	20454757	island
cg22438324	APEX1	CGI:chr14:20454581-20455864	chr14	20454764	20454765	island
cg23332678	APEX1	CGI:chr14:20454581-20455864	chr14	20457392	20457393	island
cg27054308	APEX1	CGI:chr14:20454581-20455864	chr14	20454706	20454707	island
cg01879757	BRCA1	CGI:chr17:43024653-43025576	chr17	43044351	43044352	.
cg02286533	BRCA1	CGI:chr17:43126117-43126443	chr17	43126162	43126163	island
cg04110421	BRCA1	CGI:chr17:43126117-43126443	chr17	43125411	43125412	N_shore
cg04582861	BRCA1	CGI:chr17:43126117-43126443	chr17	43124589	43124590	N_shore
cg04658354	BRCA1	CGI:chr17:43126117-43126443	chr17	43125427	43125428	N_shore
cg05815247	BRCA1	CGI:chr17:43126117-43126443	chr17	43126564	43126565	S-shore
cg06001716	BRCA1	CGI:chr17:43126117-43126443	chr17	43126124	43126125	island
cg06973652	BRCA1	CGI:chr17:43126117-43126443	chr17	43126605	43126606	S-shore
cg07054526	BRCA1	CGI:chr17:43126117-43126443	chr17	43120491	43120492	.
cg08386886	BRCA1	CGI:chr17:43126117-43126443	chr17	43125257	43125258	N_shore
cg08993267	BRCA1	CGI:chr17:43126117-43126443	chr17	43125305	43125306	N_shore
cg09441966	BRCA1	CGI:chr17:43126117-43126443	chr17	43125470	43125471	N_shore
cg09831010	BRCA1	CGI:chr17:43126117-43126443	chr17	43125830	43125831	N_shore
cg10609677	BRCA1	CGI:chr17:43126117-43126443	chr17	43126556	43126557	S-shore
cg10893007	BRCA1	CGI:chr17:43126117-43126443	chr17	43125677	43125678	N_shore
cg11126247	BRCA1	CGI:chr17:43126117-43126443	chr17	43125690	43125691	N_shore
cg11529738	BRCA1	CGI:chr17:43126117-43126443	chr17	43126408	43126409	island
cg11964474	BRCA1	CGI:chr17:43126117-43126443	chr17	43126638	43126639	S-shore

cg12182452	BRCA1	CGI:chr17:43126117-43126443	chr17	43125713	43125714	N_shore
cg12984107	BRCA1	CGI:chr17:43126117-43126443	chr17	43124989	43124990	N_shore
cg13782816	BRCA1	CGI:chr17:43126117-43126443	chr17	43124075	43124076	N_shelf
cg14687474	BRCA1	CGI:chr17:43126117-43126443	chr17	43126264	43126265	island
cg14947218	BRCA1	CGI:chr17:43126117-43126443	chr17	43126180	43126181	island
cg15419295	BRCA1	CGI:chr17:43126117-43126443	chr17	43125372	43125373	N_shore
cg16006004	BRCA1	CGI:chr17:43126117-43126443	chr17	43126224	43126225	island
cg16029534	BRCA1	CGI:chr17:43024653-43025576	chr17	43045766	43045767	.
cg16630982	BRCA1	CGI:chr17:43126117-43126443	chr17	43125377	43125378	N_shore
cg16919093	BRCA1	CGI:chr17:43024653-43025576	chr17	43064303	43064304	.
cg16963062	BRCA1	CGI:chr17:43126117-43126443	chr17	43125375	43125376	N_shore
cg17301289	BRCA1	CGI:chr17:43126117-43126443	chr17	43125445	43125446	N_shore
cg18372208	BRCA1	CGI:chr17:43126117-43126443	chr17	43126246	43126247	island
cg18830083	BRCA1	CGI:chr17:43024653-43025576	chr17	43069522	43069523	.
cg19088651	BRCA1	CGI:chr17:43126117-43126443	chr17	43125196	43125197	N_shore
cg19442659	BRCA1	CGI:chr17:43126117-43126443	chr17	43126489	43126490	S-shore
cg19454999	BRCA1	CGI:chr17:43126117-43126443	chr17	43126340	43126341	island
cg19531713	BRCA1	CGI:chr17:43126117-43126443	chr17	43125042	43125043	N_shore
cg20187250	BRCA1	CGI:chr17:43126117-43126443	chr17	43125364	43125365	N_shore
cg20760063	BRCA1	CGI:chr17:43126117-43126443	chr17	43125563	43125564	N_shore
cg21253966	BRCA1	CGI:chr17:43126117-43126443	chr17	43125409	43125410	N_shore
cg24806953	BRCA1	CGI:chr17:43126117-43126443	chr17	43125347	43125348	N_shore
cg24900425	BRCA1	CGI:chr17:43126117-43126443	chr17	43126427	43126428	island
cg25067162	BRCA1	CGI:chr17:43126117-43126443	chr17	43125957	43125958	N_shore
cg25288140	BRCA1	CGI:chr17:43126117-43126443	chr17	43126324	43126325	island
cg25738236	BRCA1	CGI:chr17:43126117-43126443	chr17	43126635	43126636	S-shore
cg26276233	BRCA1	CGI:chr17:43126117-43126443	chr17	43126118	43126119	island
cg26370022	BRCA1	CGI:chr17:43126117-43126443	chr17	43126412	43126413	island
cg26891576	BRCA1	CGI:chr17:43126117-43126443	chr17	43125524	43125525	N_shore
cg27581762	BRCA1	CGI:chr17:43126117-43126443	chr17	43126546	43126547	S-shore
cg00031759	BRCA2	CGI:chr13:32315396-32315763	chr13	32315397	32315398	Island
cg05153735	BRCA2	CGI:chr13:32315396-32315763	chr13	32315378	32315379	N_Shore
cg06935361	BRCA2	CGI:chr13:32427112-32427740	chr13	32390317	32390318	.

cg08157964	BRCA2	CGI:chr13:32315396-32315763	chr13	32315724	32315725	Island
cg08193369	BRCA2	CGI:chr13:32315396-32315763	chr13	32315178	32315179	N_Shore
cg09102017	BRCA2	CGI:chr13:32315396-32315763	chr13	32315857	32315858	S_Shore
cg09698981	BRCA2	CGI:chr13:32315396-32315763	chr13	32315333	32315334	N_Shore
cg12836863	BRCA2	CGI:chr13:32315396-32315763	chr13	32314886	32314887	N_Shore
cg15865175	BRCA2	CGI:chr13:32315396-32315763	chr13	32316078	32316079	S_Shore
cg16725191	BRCA2	CGI:chr13:32427112-32427740	chr13	32398935	32398936	.
cg19634711	BRCA2	CGI:chr13:32315396-32315763	chr13	32315324	32315325	N_Shore
cg20073910	BRCA2	CGI:chr13:32315396-32315763	chr13	32315402	32315403	Island
cg25753010	BRCA2	CGI:chr13:32315396-32315763	chr13	32315297	32315298	N_Shore
cg26458617	BRCA2	CGI:chr13:32315396-32315763	chr13	32315076	32315077	N_Shore
cg27253386	BRCA2	CGI:chr13:32315396-32315763	chr13	32315615	32315616	Island
cg01756564	ATM	CGI:chr11:108222484-108223242	chr11	108223085	108223086	Island
cg01800843	ATM	CGI:chr11:108222484-108223242	chr11	108221980	108221981	N_Shore
cg01991180	ATM	CGI:chr11:108222484-108223242	chr11	108221549	108221550	N_Shore
cg02105423	ATM	CGI:chr11:108222484-108223242	chr11	108222368	108222369	N_Shore
cg02511767	ATM	CGI:chr11:108222484-108223242	chr11	108320390	108320391	.
cg03165700	ATM	CGI:chr11:108222484-108223242	chr11	108222493	108222494	Island
cg03569616	ATM	CGI:chr11:108222484-108223242	chr11	108221682	108221683	N_Shore
cg04709886	ATM	CGI:chr11:108222484-108223242	chr11	108223027	108223028	Island
cg04770025	ATM	CGI:chr11:108222484-108223242	chr11	108302071	108302072	.
cg04826772	ATM	CGI:chr11:108222484-108223242	chr11	108222237	108222238	N_Shore
cg05033322	ATM	CGI:chr11:108222484-108223242	chr11	108222518	108222519	Island
cg05231509	ATM	CGI:chr11:108222484-108223242	chr11	108223384	108223385	S_Shore
cg05471373	ATM	CGI:chr11:108222484-108223242	chr11	108287141	108287142	.
cg05637308	ATM	CGI:chr11:108222484-108223242	chr11	108221977	108221978	N_Shore
cg06053805	ATM	CGI:chr11:108222484-108223242	chr11	108222686	108222687	Island
cg06081482	ATM	CGI:chr11:108222484-108223242	chr11	108222357	108222358	N_Shore
cg06750635	ATM	CGI:chr11:108222484-108223242	chr11	108222692	108222693	Island
cg08954307	ATM	CGI:chr11:108497771-108498680	chr11	108364023	108364024	.
cg09808176	ATM	CGI:chr11:108222484-108223242	chr11	108221686	108221687	N_Shore
cg10610482	ATM	CGI:chr11:108222484-108223242	chr11	108222485	108222486	Island
cg10976287	ATM	CGI:chr11:108222484-108223242	chr11	108222382	108222383	N_Shore

cg11588932	ATM	CGI:chr11:108222484-108223242	chr11	108222058	108222059	N_Shore
cg12019961	ATM	CGI:chr11:108222484-108223242	chr11	108222091	108222092	N_Shore
cg12106634	ATM	CGI:chr11:108222484-108223242	chr11	108221673	108221674	N_Shore
cg12139707	ATM	CGI:chr11:108222484-108223242	chr11	108287085	108287086	.
cg12848864	ATM	CGI:chr11:108222484-108223242	chr11	108222491	108222492	Island
cg14761454	ATM	CGI:chr11:108222484-108223242	chr11	108221360	108221361	N_Shore
cg15370815	ATM	CGI:chr11:108222484-108223242	chr11	108222608	108222609	Island
cg15504467	ATM	CGI:chr11:108222484-108223242	chr11	108222511	108222512	Island
cg16693212	ATM	CGI:chr11:108222484-108223242	chr11	108222522	108222523	Island
cg16788234	ATM	CGI:chr11:108222484-108223242	chr11	108222611	108222612	Island
cg17114932	ATM	CGI:chr11:108222484-108223242	chr11	108222171	108222172	N_Shore
cg17420659	ATM	CGI:chr11:108222484-108223242	chr11	108221670	108221671	N_Shore
cg18042593	ATM	CGI:chr11:108222484-108223242	chr11	108221701	108221702	N_Shore
cg18391757	ATM	CGI:chr11:108222484-108223242	chr11	108222724	108222725	Island
cg18457775	ATM	CGI:chr11:108222484-108223242	chr11	108222953	108222954	Island
cg19288979	ATM	CGI:chr11:108222484-108223242	chr11	108222463	108222464	N_Shore
cg19892525	ATM	CGI:chr11:108222484-108223242	chr11	108286771	108286772	.
cg20342375	ATM	CGI:chr11:108222484-108223242	chr11	108222596	108222597	Island
cg21681962	ATM	CGI:chr11:108497771-108498680	chr11	108367578	108367579	.
cg22477592	ATM	CGI:chr11:108222484-108223242	chr11	108223194	108223195	Island
cg22678707	ATM	CGI:chr11:108222484-108223242	chr11	108222175	108222176	N_Shore
cg22837512	ATM	CGI:chr11:108222484-108223242	chr11	108222659	108222660	Island
cg23275463	ATM	CGI:chr11:108222484-108223242	chr11	108222145	108222146	N_Shore
cg23389069	ATM	CGI:chr11:108222484-108223242	chr11	108221987	108221988	N_Shore
cg24030675	ATM	CGI:chr11:108222484-108223242	chr11	108222675	108222676	Island
cg24568245	ATM	CGI:chr11:108222484-108223242	chr11	108222291	108222292	N_Shore
cg25400013	ATM	CGI:chr11:108222484-108223242	chr11	108222712	108222713	Island
cg25740661	ATM	CGI:chr11:108222484-108223242	chr11	108222243	108222244	N_Shore
cg25918541	ATM	CGI:chr11:108222484-108223242	chr11	108221726	108221727	N_Shore
cg27453365	ATM	CGI:chr11:108222484-108223242	chr11	108221589	108221590	N_Shore
cg27599391	ATM	CGI:chr11:108222484-108223242	chr11	108221679	108221680	N_Shore
cg27627854	ATM	CGI:chr11:108222484-108223242	chr11	108287655	108287656	.
cg02021919	CCNH	CGI:chr5:87412479-87413061	chr5	87411257	87411258	N_Shore

cg06061645	CCNH	CGI:chr5:87412479-87413061	chr5	87413037	87413038	Island
cg09299307	CCNH	CGI:chr5:87412479-87413061	chr5	87413206	87413207	S_Shore
cg14452392	CCNH	CGI:chr5:87412479-87413061	chr5	87412842	87412843	Island
cg16551049	CCNH	CGI:chr5:87412479-87413061	chr5	87412850	87412851	Island
cg17341345	CCNH	CGI:chr5:87412479-87413061	chr5	87413592	87413593	S_Shore
cg19460391	CCNH	CGI:chr5:87412479-87413061	chr5	87413786	87413787	S_Shore
cg20779019	CCNH	CGI:chr5:87412479-87413061	chr5	87412555	87412556	Island
cg23296058	CCNH	CGI:chr5:87412479-87413061	chr5	87413060	87413061	Island
cg02005336	FEN1	CGI:chr11:61792435-61793077	chr11	61792651	61792652	Island
cg02858164	FEN1	CGI:chr11:61792435-61793077	chr11	61791969	61791970	N_Shore
cg03114244	FEN1	CGI:chr11:61792435-61793077	chr11	61792883	61792884	Island
cg03805684	FEN1	CGI:chr11:61792435-61793077	chr11	61793747	61793748	S_Shore
cg05046026	FEN1	CGI:chr11:61792435-61793077	chr11	61792509	61792510	Island
cg07583651	FEN1	CGI:chr11:61792435-61793077	chr11	61792894	61792895	Island
cg08506138	FEN1	CGI:chr11:61792435-61793077	chr11	61796076	61796077	S_Shelf
cg08873353	FEN1	CGI:chr11:61792435-61793077	chr11	61793062	61793063	Island
cg10248302	FEN1	CGI:chr11:61792435-61793077	chr11	61792685	61792686	Island
cg11730100	FEN1	CGI:chr11:61792435-61793077	chr11	61792822	61792823	Island
cg14086033	FEN1	CGI:chr11:61792435-61793077	chr11	61792349	61792350	N_Shore
cg16150798	FEN1	CGI:chr11:61792435-61793077	chr11	61792620	61792621	Island
cg16916522	FEN1	CGI:chr11:61792435-61793077	chr11	61792910	61792911	Island
cg18009798	FEN1	CGI:chr11:61792435-61793077	chr11	61792748	61792749	Island
cg19038968	FEN1	CGI:chr11:61792435-61793077	chr11	61792490	61792491	Island
cg19433902	FEN1	CGI:chr11:61792435-61793077	chr11	61796957	61796958	S_Shelf
cg22662482	FEN1	CGI:chr11:61792435-61793077	chr11	61793327	61793328	S_Shore
cg22704775	FEN1	CGI:chr11:61792435-61793077	chr11	61792654	61792655	Island
cg23960684	FEN1	CGI:chr11:61792435-61793077	chr11	61792492	61792493	Island
cg25628257	FEN1	CGI:chr11:61792435-61793077	chr11	61792520	61792521	Island
cg26061001	FEN1	CGI:chr11:61792435-61793077	chr11	61792528	61792529	Island
cg01151686	LIG3	CGI:chr17:34980333-34981227	chr17	34980603	34980604	Island
cg01538960	LIG3	CGI:chr17:34980333-34981227	chr17	34981219	34981220	Island
cg01818539	LIG3	CGI:chr17:34980333-34981227	chr17	34997754	34997755	.
cg02550119	LIG3	CGI:chr17:34980333-34981227	chr17	34979708	34979709	N_Shore

cg02930207	LIG3	CGI:chr17:34980333-34981227	chr17	34980499	34980500	Island
cg06495529	LIG3	CGI:chr17:34980333-34981227	chr17	35004985	35004986	.
cg11028586	LIG3	CGI:chr17:34980333-34981227	chr17	34980464	34980465	Island
cg12282606	LIG3	CGI:chr17:34980333-34981227	chr17	34981343	34981344	S_Shore
cg12564291	LIG3	CGI:chr17:34980333-34981227	chr17	34980451	34980452	Island
cg17059575	LIG3	CGI:chr17:34980333-34981227	chr17	34980564	34980565	Island
cg18453874	LIG3	CGI:chr17:34980333-34981227	chr17	34980314	34980315	N_Shore
cg21207593	LIG3	CGI:chr17:34980333-34981227	chr17	34983476	34983477	S_Shelf
cg22380059	LIG3	CGI:chr17:34980333-34981227	chr17	34980493	34980494	Island
cg23253879	LIG3	CGI:chr17:34980333-34981227	chr17	34980457	34980458	Island
cg23721398	LIG3	CGI:chr17:34980333-34981227	chr17	35004966	35004967	.
cg24041995	LIG3	CGI:chr17:34980333-34981227	chr17	34980380	34980381	Island
cg00893636	MLH1	CGI:chr3:36992737-36993865	chr3	36993349	36993350	Island
cg02103401	MLH1	CGI:chr3:36992737-36993865	chr3	36991882	36991883	N_Shore
cg02279071	MLH1	CGI:chr3:36992737-36993865	chr3	36992663	36992664	N_Shore
cg03192963	MLH1	CGI:chr3:36992737-36993865	chr3	36993418	36993419	Island
cg03405026	MLH1	CGI:chr3:36992737-36993865	chr3	37040889	37040890	.
cg03497419	MLH1	CGI:chr3:36992737-36993865	chr3	36993163	36993164	Island
cg03901257	MLH1	CGI:chr3:36992737-36993865	chr3	36992651	36992652	N_Shore
cg04726821	MLH1	CGI:chr3:36992737-36993865	chr3	36992300	36992301	N_Shore
cg04841293	MLH1	CGI:chr3:36992737-36993865	chr3	36992537	36992538	N_Shore
cg05670953	MLH1	CGI:chr3:36992737-36993865	chr3	36992412	36992413	N_Shore
cg05845319	MLH1	CGI:chr3:36992737-36993865	chr3	36992575	36992576	N_Shore
cg05906740	MLH1	CGI:chr3:36992737-36993865	chr3	36993714	36993715	Island
cg06108510	MLH1	CGI:chr3:36992737-36993865	chr3	36993572	36993573	Island
cg06590608	MLH1	CGI:chr3:36992737-36993865	chr3	36993737	36993738	Island
cg06791151	MLH1	CGI:chr3:36992737-36993865	chr3	36993465	36993466	Island
cg07064226	MLH1	CGI:chr3:36992737-36993865	chr3	36993506	36993507	Island
cg07101782	MLH1	CGI:chr3:36992737-36993865	chr3	36993004	36993005	Island
cg10769891	MLH1	CGI:chr3:36992737-36993865	chr3	36993239	36993240	Island
cg10990993	MLH1	CGI:chr3:36992737-36993865	chr3	36992141	36992142	N_Shore
cg11224603	MLH1	CGI:chr3:36992737-36993865	chr3	36993791	36993792	Island
cg11291081	MLH1	CGI:chr3:36992737-36993865	chr3	36992403	36992404	N_Shore

cg11363877	MLH1	CGI:chr3:36992737-36993865	chr3	37040824	37040825	.
cg11600697	MLH1	CGI:chr3:36992737-36993865	chr3	36993323	36993324	Island
cg12790037	MLH1	CGI:chr3:36992737-36993865	chr3	36993626	36993627	Island
cg12851504	MLH1	CGI:chr3:36992737-36993865	chr3	36993731	36993732	Island
cg13846866	MLH1	CGI:chr3:36992737-36993865	chr3	36993908	36993909	S_Shore
cg14598950	MLH1	CGI:chr3:36992737-36993865	chr3	36993864	36993865	Island
cg14671526	MLH1	CGI:chr3:36992737-36993865	chr3	36993709	36993710	Island
cg14751544	MLH1	CGI:chr3:36992737-36993865	chr3	36992675	36992676	N_Shore
cg16433211	MLH1	CGI:chr3:36992737-36993865	chr3	36993202	36993203	Island
cg16764580	MLH1	CGI:chr3:36992737-36993865	chr3	36992855	36992856	Island
cg16863190	MLH1	CGI:chr3:36992737-36993865	chr3	37050702	37050703	.
cg17621259	MLH1	CGI:chr3:36992737-36993865	chr3	36993677	36993678	Island
cg17641046	MLH1	CGI:chr3:36992737-36993865	chr3	36992982	36992983	Island
cg18320188	MLH1	CGI:chr3:36992737-36993865	chr3	36992489	36992490	N_Shore
cg19132762	MLH1	CGI:chr3:36992737-36993865	chr3	36993248	36993249	Island
cg19208331	MLH1	CGI:chr3:36992737-36993865	chr3	36993854	36993855	Island
cg21109167	MLH1	CGI:chr3:36992737-36993865	chr3	36992593	36992594	N_Shore
cg21490561	MLH1	CGI:chr3:36992737-36993865	chr3	36993334	36993335	Island
cg23658326	MLH1	CGI:chr3:36992737-36993865	chr3	36993296	36993297	Island
cg24607398	MLH1	CGI:chr3:36992737-36993865	chr3	36992134	36992135	N_Shore
cg24985459	MLH1	CGI:chr3:36992737-36993865	chr3	36993599	36993600	Island
cg25202636	MLH1	CGI:chr3:36992737-36993865	chr3	36993667	36993668	Island
cg25212762	MLH1	CGI:chr3:36992737-36993865	chr3	37013923	37013924	.
cg25837710	MLH1	CGI:chr3:36992737-36993865	chr3	36993729	36993730	Island
cg27331401	MLH1	CGI:chr3:36992737-36993865	chr3	36993716	36993717	Island
cg27586588	MLH1	CGI:chr3:36992737-36993865	chr3	36993170	36993171	Island
cg01188068	MLH3	CGI:chr14:75051014-75051521	chr14	75051094	75051095	Island
cg05361542	MLH3	CGI:chr14:75051014-75051521	chr14	75051298	75051299	Island
cg07550334	MLH3	CGI:chr14:75051014-75051521	chr14	75051568	75051569	S_Shore
cg09304272	MLH3	CGI:chr14:75051014-75051521	chr14	75050936	75050937	N_Shore
cg11146081	MLH3	CGI:chr14:75051014-75051521	chr14	75047431	75047432	N_Shelf
cg15467112	MLH3	CGI:chr14:75002612-75003179	chr14	75022907	75022908	.
cg24482053	MLH3	CGI:chr14:75051014-75051521	chr14	75051300	75051301	Island

cg27057204	MLH3	CGI:chr14:75051014-75051521	chr14	75052459	75052460	S_Shore
cg03693064	MRE11A	CGI:chr11:94493506-94494246	chr11	94494214	94494215	Island
cg05996326	MRE11A	CGI:chr11:94493506-94494246	chr11	94494245	94494246	Island
cg07258852	MRE11A	CGI:chr11:94493506-94494246	chr11	94494417	94494418	S_Shore
cg07795790	MRE11A	CGI:chr11:94493506-94494246	chr11	94493943	94493944	Island
cg08591668	MRE11A	CGI:chr11:94401060-94401682	chr11	94417559	94417560	.
cg08831996	MRE11A	CGI:chr11:94493506-94494246	chr11	94493840	94493841	Island
cg09446910	MRE11A	CGI:chr11:94493506-94494246	chr11	94490878	94490879	N_Shelf
cg11701250	MRE11A	CGI:chr11:94493506-94494246	chr11	94494017	94494018	Island
cg13023536	MRE11A	CGI:chr11:94493506-94494246	chr11	94493371	94493372	N_Shore
cg14152411	MRE11A	CGI:chr11:94493506-94494246	chr11	94494014	94494015	Island
cg17514420	MRE11A	CGI:chr11:94493506-94494246	chr11	94493825	94493826	Island
cg20815063	MRE11A	CGI:chr11:94493506-94494246	chr11	94494154	94494155	Island
cg23340525	MRE11A	CGI:chr11:94493506-94494246	chr11	94493915	94493916	Island
cg23492613	MRE11A	CGI:chr11:94493506-94494246	chr11	94493601	94493602	Island
cg23759214	MRE11A	CGI:chr11:94493506-94494246	chr11	94493759	94493760	Island
cg24848557	MRE11A	CGI:chr11:94493506-94494246	chr11	94493940	94493941	Island
cg26262057	MRE11A	CGI:chr11:94493506-94494246	chr11	94493872	94493873	Island
cg00547758	MSH2	CGI:chr2:47402928-47403652	chr2	47403155	47403156	Island
cg03639557	MSH2	CGI:chr2:47402928-47403652	chr2	47403648	47403649	Island
cg06478094	MSH2	CGI:chr2:47402928-47403652	chr2	47403112	47403113	Island
cg11311499	MSH2	CGI:chr2:47402928-47403652	chr2	47403706	47403707	S_Shore
cg14282180	MSH2	CGI:chr2:47402928-47403652	chr2	47403294	47403295	Island
cg17129141	MSH2	CGI:chr2:47402928-47403652	chr2	47402810	47402811	N_Shore
cg22269526	MSH2	CGI:chr2:47402928-47403652	chr2	47403085	47403086	Island
cg22547404	MSH2	CGI:chr2:47402928-47403652	chr2	47403008	47403009	Island
cg25746226	MSH2	CGI:chr2:47402928-47403652	chr2	47402653	47402654	N_Shore
cg25868465	MSH2	CGI:chr2:47402928-47403652	chr2	47403033	47403034	Island
cg00653565	PARP1	CGI:chr1:226407632-226408238	chr1	226407877	226407878	Island
cg02088626	PARP1	CGI:chr1:226407632-226408238	chr1	226408721	226408722	S_Shore
cg03149313	PARP1	CGI:chr1:226407632-226408238	chr1	226407633	226407634	Island
cg04960271	PARP1	CGI:chr1:226407632-226408238	chr1	226407875	226407876	Island
cg07113065	PARP1	CGI:chr1:226407632-226408238	chr1	226407793	226407794	Island



cg11797700	PARP1	CGI:chr1:226407632-226408238	chr1	226361409	226361410	.
cg17127702	PARP1	CGI:chr1:226407632-226408238	chr1	226406622	226406623	N_Shore
cg17661881	PARP1	CGI:chr1:226407632-226408238	chr1	226408277	226408278	S_Shore
cg18590995	PARP1	CGI:chr1:226407632-226408238	chr1	226370795	226370796	.
cg19624601	PARP1	CGI:chr1:226407632-226408238	chr1	226380608	226380609	.
cg23712594	PARP1	CGI:chr1:226407632-226408238	chr1	226404189	226404190	N_Shelf
cg24937136	PARP1	CGI:chr1:226407632-226408238	chr1	226405645	226405646	N_Shore
cg25722198	PARP1	CGI:chr1:226407632-226408238	chr1	226408075	226408076	Island
cg26464410	PARP1	CGI:chr1:226407632-226408238	chr1	226408237	226408238	Island
ch.1.4424447F	PARP1	CGI:chr1:226407632-226408238	chr1	226361859	226361859	.
cg02133350	PMS2	CGI:chr7:5970444-5970777	chr7	5974403	5974404	S_Shelf
cg04317940	PMS2	CGI:chr7:6008765-6009624	chr7	6008983	6008984	Island
cg06586813	PMS2	CGI:chr7:5970444-5970777	chr7	5987178	5987179	.
cg08466138	PMS2	CGI:chr7:6008765-6009624	chr7	6009623	6009624	Island
cg08738770	PMS2	CGI:chr7:5970444-5970777	chr7	5987301	5987302	.
cg12502785	PMS2	CGI:chr7:6008765-6009624	chr7	6009334	6009335	Island
cg12997166	PMS2	CGI:chr7:6008765-6009624	chr7	6009032	6009033	Island
cg14779627	PMS2	CGI:chr7:6008765-6009624	chr7	6009084	6009085	Island
cg15985338	PMS2	CGI:chr7:6008765-6009624	chr7	6009237	6009238	Island
cg16595953	PMS2	CGI:chr7:6008765-6009624	chr7	6009079	6009080	Island
cg18282264	PMS2	CGI:chr7:6008765-6009624	chr7	6009252	6009253	Island
cg18490802	PMS2	CGI:chr7:6008765-6009624	chr7	6009672	6009673	S_Shore
cg19570749	PMS2	CGI:chr7:6008765-6009624	chr7	5995943	5995944	.
cg21288207	PMS2	CGI:chr7:6008765-6009624	chr7	6009042	6009043	Island
cg25403084	PMS2	CGI:chr7:6008765-6009624	chr7	6009201	6009202	Island
cg25495217	PMS2	CGI:chr7:6008765-6009624	chr7	6009244	6009245	Island
cg01544807	POLB	CGI:chr8:42338342-42338707	chr8	42338021	42338022	N_Shore
cg07069743	POLB	CGI:chr8:42338342-42338707	chr8	42338853	42338854	S_Shore
cg10192369	POLB	CGI:chr8:42338342-42338707	chr8	42338444	42338445	Island
cg11415932	POLB	CGI:chr8:42338342-42338707	chr8	42338621	42338622	Island
cg14836868	POLB	CGI:chr8:42338342-42338707	chr8	42338536	42338537	Island
cg18894794	POLB	CGI:chr8:42338342-42338707	chr8	42338343	42338344	Island
cg20264731	POLB	CGI:chr8:42338342-42338707	chr8	42338126	42338127	N_Shore

cg23279929	POLB	CGI:chr8:42338342-42338707	chr8	42338345	42338346	Island
cg25085158	POLB	CGI:chr8:42338342-42338707	chr8	42341825	42341826	S_Shelf
cg25258812	POLB	CGI:chr8:42338342-42338707	chr8	42338094	42338095	N_Shore
cg00453717	POLD3	CGI:chr11:74592484-74592995	chr11	74633584	74633585	.
cg01173485	POLD3	CGI:chr11:74592484-74592995	chr11	74591848	74591849	N_Shore
cg01551511	POLD3	CGI:chr11:74592484-74592995	chr11	74592485	74592486	Island
cg06467767	POLD3	CGI:chr11:74592484-74592995	chr11	74592494	74592495	Island
cg08839620	POLD3	CGI:chr11:74592484-74592995	chr11	74592741	74592742	Island
cg10330248	POLD3	CGI:chr11:74592484-74592995	chr11	74592647	74592648	Island
cg11913491	POLD3	CGI:chr11:74592484-74592995	chr11	74592856	74592857	Island
cg16342037	POLD3	CGI:chr11:74592484-74592995	chr11	74592449	74592450	N_Shore
cg17174146	POLD3	CGI:chr11:74592484-74592995	chr11	74592456	74592457	N_Shore
cg20429722	POLD3	CGI:chr11:74683365-74683716	chr11	74642508	74642509	.
cg20469507	POLD3	CGI:chr11:74592484-74592995	chr11	74611957	74611958	.
cg22212700	POLD3	CGI:chr11:74592484-74592995	chr11	74592637	74592638	Island
cg26564815	POLD3	CGI:chr11:74683365-74683716	chr11	74639888	74639889	.
cg26717758	POLD3	CGI:chr11:74592484-74592995	chr11	74593046	74593047	S_Shore
cg26885816	POLD3	CGI:chr11:74592484-74592995	chr11	74591967	74591968	N_Shore
cg06742493	RAD23A	CGI:chr19:12945644-12946311	chr19	12945931	12945932	Island
cg06907141	RAD23A	CGI:chr19:12945644-12946311	chr19	12946392	12946393	S_Shore
cg11913104	RAD23A	CGI:chr19:12945644-12946311	chr19	12945929	12945930	Island
cg13995374	RAD23A	CGI:chr19:12945644-12946311	chr19	12945656	12945657	Island
cg18634848	RAD23A	CGI:chr19:12945644-12946311	chr19	12945645	12945646	Island
cg21033655	RAD23A	CGI:chr19:12945644-12946311	chr19	12946310	12946311	Island
cg22984992	RAD23A	CGI:chr19:12945644-12946311	chr19	12945609	12945610	N_Shore
cg23260573	RAD23A	CGI:chr19:12945644-12946311	chr19	12945015	12945016	N_Shore
cg24134071	RAD23A	CGI:chr19:12945644-12946311	chr19	12948742	12948743	S_Shelf
cg27180563	RAD23A	CGI:chr19:12945644-12946311	chr19	12945671	12945672	Island
cg08134337	RAD23B	CGI:chr9:107282831-107284022	chr9	107283943	107283944	Island
cg13475031	RAD23B	CGI:chr9:107282831-107284022	chr9	107283014	107283015	Island
cg13663912	RAD23B	CGI:chr9:107282831-107284022	chr9	107282591	107282592	N_Shore
cg13794334	RAD23B	CGI:chr9:107282831-107284022	chr9	107283701	107283702	Island
cg13894624	RAD23B	CGI:chr9:107282831-107284022	chr9	107284390	107284391	S_Shore

cg14131431	RAD23B	CGI:chr9:107282831-107284022	chr9	107331186	107331187	.
cg14325160	RAD23B	CGI:chr9:107282831-107284022	chr9	107283623	107283624	Island
cg14509390	RAD23B	CGI:chr9:107282831-107284022	chr9	107282848	107282849	Island
cg14919562	RAD23B	CGI:chr9:107282831-107284022	chr9	107283620	107283621	Island
cg22968991	RAD23B	CGI:chr9:107282831-107284022	chr9	107283082	107283083	Island
cg25483839	RAD23B	CGI:chr9:107282831-107284022	chr9	107282606	107282607	N_Shore
cg01813841	RAD50	CGI:chr5:132556872-132557265	chr5	132557264	132557265	Island
cg04689890	RAD50	CGI:chr5:132556872-132557265	chr5	132560096	132560097	S_Shelf
cg05198819	RAD50	CGI:chr5:132556872-132557265	chr5	132556747	132556748	N_Shore
cg05700333	RAD50	CGI:chr5:132556872-132557265	chr5	132557031	132557032	Island
cg07691761	RAD50	CGI:chr5:132556872-132557265	chr5	132557019	132557020	Island
cg08336435	RAD50	CGI:chr5:132556872-132557265	chr5	132556823	132556824	N_Shore
cg10643407	RAD50	CGI:chr5:132556872-132557265	chr5	132556831	132556832	N_Shore
cg12886812	RAD50	CGI:chr5:132556872-132557265	chr5	132557609	132557610	S_Shore
cg13652314	RAD50	CGI:chr5:132556872-132557265	chr5	132557452	132557453	S_Shore
cg14597804	RAD50	CGI:chr5:132655862-132656612	chr5	132629634	132629635	enhancer
cg24974130	RAD50	CGI:chr5:132556872-132557265	chr5	132557314	132557315	S_Shore
cg00499859	RAD51	CGI:chr15:40694673-40695574	chr15	40695170	40695171	Island
cg00608534	RAD51	CGI:chr15:40694673-40695574	chr15	40694764	40694765	Island
cg04662451	RAD51	CGI:chr15:40694673-40695574	chr15	40695592	40695593	S_Shore
cg06043109	RAD51	CGI:chr15:40694673-40695574	chr15	40694811	40694812	Island
cg09235138	RAD51	CGI:chr15:40694673-40695574	chr15	40695206	40695207	Island
cg10343233	RAD51	CGI:chr15:40694673-40695574	chr15	40695475	40695476	Island
cg12032359	RAD51	CGI:chr15:40694673-40695574	chr15	40694725	40694726	Island
cg13422654	RAD51	CGI:chr15:40694673-40695574	chr15	40698676	40698677	S_Shelf
cg14086642	RAD51	CGI:chr15:40694673-40695574	chr15	40695081	40695082	Island
cg17467550	RAD51	CGI:chr15:40694673-40695574	chr15	40694504	40694505	N_Shore
cg17955420	RAD51	CGI:chr15:40694673-40695574	chr15	40695573	40695574	Island
cg21465754	RAD51	CGI:chr15:40694673-40695574	chr15	40694674	40694675	Island
cg22879270	RAD51	CGI:chr15:40694673-40695574	chr15	40694979	40694980	Island
cg24234845	RAD51	CGI:chr15:40694673-40695574	chr15	40695011	40695012	Island
ch.15.406975R	RAD51	CGI:chr15:40755012-40755489	chr15	40728881	40728881	.
cg01442833	UNG	CGI:chr12:109097459-109098626	chr12	109097593	109097594	Island

cg03244974	UNG	CGI:chr12:109111094-109111369	chr12	109110876	109110877	N_Shore
cg03916864	UNG	CGI:chr12:109097459-109098626	chr12	109097579	109097580	Island
cg06818627	UNG	CGI:chr12:109097459-109098626	chr12	109098625	109098626	Island
cg07429748	UNG	CGI:chr12:109097459-109098626	chr12	109098301	109098302	Island
cg09868274	UNG	CGI:chr12:109097459-109098626	chr12	109096302	109096303	N_Shore
cg11836012	UNG	CGI:chr12:109097459-109098626	chr12	109097515	109097516	Island
cg12696399	UNG	CGI:chr12:109097459-109098626	chr12	109098332	109098333	Island
cg14642045	UNG	CGI:chr12:109097459-109098626	chr12	109100931	109100932	S_Shelf
cg15399604	UNG	CGI:chr12:109097459-109098626	chr12	109097523	109097524	Island
cg17429457	UNG	CGI:chr12:109097459-109098626	chr12	109096665	109096666	N_Shore
cg18198707	UNG	CGI:chr12:109097459-109098626	chr12	109098193	109098194	Island
cg19258682	UNG	CGI:chr12:109097459-109098626	chr12	109098191	109098192	Island
cg20495247	UNG	CGI:chr12:109097459-109098626	chr12	109098274	109098275	Island
cg20982606	UNG	CGI:chr12:109097459-109098626	chr12	109097586	109097587	Island
cg22978941	UNG	CGI:chr12:109097459-109098626	chr12	109097655	109097656	Island
cg25745663	UNG	CGI:chr12:109097459-109098626	chr12	109098033	109098034	Island
cg26703873	UNG	CGI:chr12:109097459-109098626	chr12	109096521	109096522	N_Shore
cg27174387	UNG	CGI:chr12:109097459-109098626	chr12	109098135	109098136	Island
cg04894169	XPC	CGI:chr3:14178215-14178908	chr3	14178907	14178908	Island
cg07574621	XPC	CGI:chr3:14178215-14178908	chr3	14178688	14178689	Island
cg07580707	XPC	CGI:chr3:14178215-14178908	chr3	14178561	14178562	Island
cg07731455	XPC	CGI:chr3:14178215-14178908	chr3	14178836	14178837	Island
cg10626541	XPC	CGI:chr3:14178215-14178908	chr3	14178350	14178351	Island
cg12732814	XPC	CGI:chr3:14178215-14178908	chr3	14178829	14178830	Island
cg13604223	XPC	CGI:chr3:14178215-14178908	chr3	14178555	14178556	Island
cg15085322	XPC	CGI:chr3:14178215-14178908	chr3	14178355	14178356	Island
cg15155672	XPC	CGI:chr3:14178215-14178908	chr3	14178827	14178828	Island
cg15679153	XPC	CGI:chr3:14178215-14178908	chr3	14178776	14178777	Island
cg17074969	XPC	CGI:chr3:14178215-14178908	chr3	14178846	14178847	Island
cg18946802	XPC	CGI:chr3:14178215-14178908	chr3	14178810	14178811	Island
cg22476542	XPC	CGI:chr3:14178215-14178908	chr3	14178547	14178548	Island
cg23070574	XPC	CGI:chr3:14124217-14125499	chr3	14145808	14145809	
cg25089332	XPC	CGI:chr3:14178215-14178908	chr3	14178671	14178672	Island

cg25375453	XPC	CGI:chr3:14178215-14178908	chr3	14178357	14178358	Island
cg27359949	XPC	CGI:chr3:14178215-14178908	chr3	14179025	14179026	S_Shore
cg01880404	XRCC1	CGI:chr19:43575430-43575753	chr19	43575375	43575376	N_Shore
cg01995811	XRCC1	CGI:chr19:43575430-43575753	chr19	43575752	43575753	Island
cg02455501	XRCC1	CGI:chr19:43575430-43575753	chr19	43575793	43575794	S_Shore
cg03571548	XRCC1	CGI:chr19:43575430-43575753	chr19	43575724	43575725	Island
cg08112313	XRCC1	CGI:chr19:43575430-43575753	chr19	43574953	43574954	N_Shore
cg15056687	XRCC1	CGI:chr19:43575430-43575753	chr19	43575476	43575477	Island
cg15107336	XRCC1	CGI:chr19:43575430-43575753	chr19	43575626	43575627	Island
cg15167433	XRCC1	CGI:chr19:43575430-43575753	chr19	43575833	43575834	S_Shore
cg18840832	XRCC1	CGI:chr19:43575430-43575753	chr19	43575133	43575134	N_Shore
cg26458270	XRCC1	CGI:chr19:43575430-43575753	chr19	43575735	43575736	Island
cg27261378	XRCC1	CGI:chr19:43575430-43575753	chr19	43575640	43575641	Island