SUPPLEMENTARY INFORMATION

Circulating Tumor DNA in a Breast Cancer Patient's Plasma Represents Driver Alterations in the Tumor Tissue

Jieun Lee[1,2§], Sung-Min Cho[3§], Min Sung Kim[4], Sug Hyung Lee[4,5], Yeun-Jun Chung[3,6,7], Seung-Hyun Jung[5]*

[1]Division of Medical Oncology, Department of Internal Medicine, Seoul St. Mary's Hospital, Seoul 06591, Korea, [2]Cancer Research Institute, College of Medicine, The Catholic University of Korea, Seoul 06591, Korea, [3]Integrated Research Center for Genome Polymorphism, College of Medicine, The Catholic University of Korea, Seoul 06591, Korea, [4]Department of Pathology, College of Medicine, The Catholic University of Korea, Seoul 06591, Korea, [5]Cancer Evolution Research Center, College of Medicine, The Catholic University of Korea, Seoul 06591, Korea, [6]Department of Microbiology, College of Medicine, The Catholic University of Korea, Seoul 06591, Korea, [7]Precision Medicine Research Center, College of Medicine, The Catholic University of Korea, Seoul 06591, Korea

http://www.genominfo.org/src/sm/gni-15-48-s001.pdf

Supplememtary Table 1. A list of non-silent somatic mutations identified in a breast tumor by WES

Gene	Genomic position[a]	Ref	Alt	Amino acid change	Exonic function
ATAD3B	chr1:1421523	A	G	p.I333V	Missense
HIST2H2AC	chr1:149858602	C	G	p.F26L	Missense
FLG2	chr1:152327810	C	A	p.A818S	Missense
RYR2	chr1:237778051	C	A	p.L1875M	Missense
ZBTB18	chr1:244217493	G	T	p.K130N	Missense
CLCA2	chr1:86920950	G	A	p.E858K	Missense
TTN	chr2:179596168	A	C	p.N4531K	Missense
TTN	chr2:179659713	G	A	p.A394V	Missense
FZD5	chr2:208632105	G	C	p.F453L	Missense
C2orf71	chr2:29295753	A	G	p.F459L	Missense
EAF1	chr3:15473643	A	G	p.Q83R	Missense
MAP6D1	chr3:183535851	C	G	p.K150N	Missense
LAMB2	chr3:49168547	G	A	p.R251C	Missense
ABHD14A	chr3:52012068	G	A	p.R84H	Missense
FOXP1	chr3:71026845	A	T	p.Y459*	Nonsense
MANBA	chr4:103560968	C	A	p.R639L	Missense
OSTC	chr4:109584406	T	C	p.L150S	Missense
INPP4B	chr4:142950014	G	A	p.A899V	Missense
DCAF4L1	chr4:41983994	G	A	p.R62Q	Missense
SLC4A9	chr5:139747461	C	T	p.R715C	Missense
PCDH12	chr5:141335297	C	T	p.R707H	Missense
MROH2B	chr5:41009477	C	A	p.E1109*	Nonsense
HTR1A	chr5:63256294	T	G	p.K418T	Missense
MCM9	chr6:119136331	G	C	p.H1030D	Missense
PKHD1	chr6:51750729	T	G	p.D2384A	Missense
TRRAP	chr7:98550994	G	A	p.G1865R	Missense
TEX15	chr8:30706046	T	A	p.N163I	Missense
OR13C2	chr9:107367629	G	A	p.L94F	Missense
SEC16A	chr9:139361484	C	CG	p.P1106fs	Frameshift
ENTPD8	chr9:140332517	G	A	p.A49V	Missense
GATA3	chr10:8097760	G	C	p.D48H	Missense
PTEN	chr10:89717748	TC	T	p.H259fs	Frameshift
PLEKHA7	chr11:16847842	G	A	p.R390W	Missense
AHNAK	chr11:62295933	T	C	p.T1986A	Missense
SLC4A8	chr12:51873974	C	T	p.R738W	Missense
SLC4A8	chr12:51873986	A	G	p.M742V	Missense
PTPRB	chr12:70965654	G	T	p.T1019N	Missense
BBS10	chr12:76741388	C	G	p.W126S	Missense
NANOGNB	chr12:7917904	C	T	p.T8M	Missense
NANOGNB	chr12:7917942	A	G	p.R21G	Missense
ATP11A	chr13:113527939	G	A	p.G1037E	Missense
UNKL	chr16:1444138	C	T	p.V311I	Missense
TNRC6A	chr16:24826564	T	C	p.I1590T	Missense
BCO1	chr16:81298374	A	T	p.I201F	Missense
SLC13A5	chr17:6607363	GC	G	p.G127fs	Frameshift
TXNDC2	chr18:9887329	T	C	p.S285P	Missense
TBXA2R	chr19:3594967	G	A	p.A364V	Missense
ZNF850	chr19:37239099	G	C	p.T916S	Missense
ZNF573	chr19:38229692	A	G	p.S479P	Missense
ZNF343	chr20:2472692	A	G	p.S115P	Missense
ZNF343	chr20:2472699	T	C	p.I112M	Missense
ABHD16B	chr20:62494200	G	A	p.R436Q	Missense
RPL10	chrX:153626864	G	A	p.G2S	Missense

WES, whole-exome sequencing.

[a]UCSC GRCh37/hg19.