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Orthotopic Tumor Model List incl Caliper cell lines

Tissue	Species	Tumor Type	Comment for in vivo work	Lead Time for in vivo studies [weeks]
Bladder				
MB-49-luc-2	Mouse	urinary bladder carcinoma	C57BL/6	2
Brain				
U87MG	Human	glioblastoma; astrocytoma	also available for U87MG-luc	6
U-87 MG-Red-FLuc	Human	glioblastoma; astrocytoma	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase.	n/a
GL261-Red-FLuc	Murine	glioblastoma multiforme	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase. extremely bright like 4T1-luc2 imaging from day 0	1
Breast				
4 T1	Mouse	breast carcinoma	Balb/C Mice	2
4 T1-Red-FLuc	Mouse	breast carcinoma	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase. single cell detection in vivo	2

Breast				
4T1-Red-FLuc-GFP	Mouse	breast carcinoma	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase. dual labeled: in-vivo imaging and tumor invasion with IHC. Ex vivo cell isolation using fluorescent activated cell sorter (FACS) Post genomic analyses of isolated tumor cells.	2
BT-474	Human	breast carcinoma	Oestrogen dependent, hormone pellets, HER2 pos	2-4
CCL-51	Mouse	breast carcinoma	lung mets	4
EMT6	Mouse	breast carcinoma	lung mets	2
HCC1954	Human	breast carcinoma	slow growing, SCID CB17 Mice, HER2 pos	6
MCF-7	Human	breast carcinoma	Estrogen dependent, hormone pellets	4
MCF-7-Red-FLuc	Human	breast adenocarcinoma	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase. Estrogen dependent, hormone pellets Lung/thoracic metastasis in nude beige (Harlan)	2
MDA-MB-231	Human	breast adenocarcinoma, Pleural	also available: MDA-MB231-luc (vP cell line)	2-3
MDA-MB-468	Human	breast adenocarcinoma	slow growing 60 days lead time	4
Colon				
Colo-201	Human	carcinoma,colorectal		

Colon				
Colo-205	Human	carcinoma,colorectal	induction of cachexia	3-4
Colo205-Red-FLuc	Human	carcinoma,colorectal	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase.	3-4
CT-26	Mouse	carcinoma, colorectal		2
HCT 116	Human	carcinoma, colorectal	also available for HCT 116-luc	2-4
HCT 116-Red-FLuc	Human	carcinoma, colorectal	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase.	2-4
HT-29	Human	adenocarcinoma, colorectal		2
HT-29-Red-FLuc	Human	adenocarcinoma; colorectal	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase. SCID-bg: subcutaneous – metastasis to lymph node and lung. Long model up to 7 weeks	2
MC-38	Mouse	adenocarinoma		2
SW620	Human	carcinoma, colorectal	resistant	4
Leukemia				
Daudi	Human	B lymphoblast, Burkitt's lymphoma (NHL)	iv injection in SCID mice	4
K-562-Red-FLuc	Human	chronic myelogenous leukemia (CML)	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase.	
LP-1	Human	Plasmacytoma, multiple myeloma (MM)	bone lytic when injected in bone marrow of tibia	4

Leukemia				
NCI-H929	Human	Plasmacytoma, multiple myeloma (MM)	bone lytic when injected in bone marrow of tibia	4
MV(4)11	Human	acute biphenotypic B monpcytic leukemia (AML)	i.v. injection in NOD SCID mice	4
RPMI 8226	Human	Plasmacytoma, multiple myeloma (MM)	bone lytic when injected in bone marrow of tibia	4
Ramos	Human	Burkitt's Lymphoma	iv injection in SCID- C.B-17, survival model	2
Raji	Human	B lymphoblast, Burkitt's lymphoma (NHL)	iv injection in SCID mice, also available for Raji-luc clone	4
Liver				
Hep 3B2.1-7	Human	hepatocellular carcinoma	subcutaneous and orthotopic, >90% take rate	3
HepG2-Red-FLuc	Human	hepatocellular carcinoma	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase.	4
HUH-7	Human	carcinoma	very variable and fast growing	3
SK-HEP-1	Human	adenocarcinoma		4
Lung Carcinoma				
A549-Red-FLuc	Human	NSCLS carcinoma, lung	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase. SCID-bg (CR): subcutaneous, intravenous lung colonization	2

Lung Carcinoma				
LL/2 luc	Mouse	Lewis Lung (C57BL6)		2-3
LL/2-Red-FLuc	Mouse	Lung Cancer	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase. i.v. multiple metastasis in several mouse strains, short model 25 days	1.5
NCI-H209	Human	SCLC, Small Cell Carcinoma	high variability	3
NCI-H460	Human	NSCLC, pleural effusion	also available for NCI-H460-luc2	2-4
NCI-H460-Red-FLuc	Human	NSCLC, pleural effusion	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase.	2-4
Melanoma Skin				
B16-F0	Mouse	melanoa	C57 Black 6 mouse	2
B16-F10	Mouse	melanoma	C57 Black 6 mouse	2
B16-F10-Red-FLuc	Mouse	melanoma	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase. C57BL/6 Albino (Jackson Lab) iv. multiple meths. short model 13 days	1
B16-F10-luc2	Mouse	melanoma	40 fold brighter than luc version	1

Melanoma Skin				
C8161	Human	malignant melanoma	metastatic clone	3
CHL-1	Human	melanoma	fast growing	2
G361	Human	malignant melanoma	lung and liver metastasis, induction of cachexia	4
Ovary				
A2780	Human	ovary adenocarcinoma		2-3
SKOV3-Red-FLuc	Human	adenocarcinoma , ovary, Malignant Ascites	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase.	3-5
Pancreas				
L3.6pL	Human	carcinoma	pancectomy in preparation	2-4
Pan02	Mouse	carcinoma	C57B16	5
MIA PaCa-2	Human	carcinoma	in Athymic Foxn1 nude	2-4
PANC-1	Human	epithelioid carcinoma	SCID mice	3-6
BxPC3-Red-FLuc	Human	pancreas adenocarcinoma	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase.	
Prostate				
DU 145	Human	prostate carcinoma	slow growth rate	4

Prostate				
LNCaP-Red-FLuc	Human	prostate carcinoma	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase. hormone sensitive SCID-bg mice, pulmonary metastases	2-3
PC3	Human	prostate adenocarcinoma	also as PC3 luc (vP cell line)	2-3
PC-3Red-FLuc	Human	prostate adenocarcinoma	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase. also as intracardiac tumor models	2-3
PC-3-Red-FLuc-GFP	Human	prostate adenocarcinoma	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase. dual labeled: in-vivo imaging and tumor invasion with IHC, Ex vivo cell isolation using fluorescent activated cell sorter (FACS) Post genomic analyses of isolated tumor cells.	2-3
Thyroid				
SW579	Human	squamous cell carcinoma		n/a
other				
HT1080-Red-FLuc	Human	Fibrosarcoma	Bioware® Brite Cell Line from PerkinElmer with red-shifted firefly luciferase.	