



Tumor/Normal Matched Cell Line Pairs

Tumor-derived cell lines matched to either normal or metastatic cell lines obtained from the same patient provide a valuable resource for cancer studies. The availability of such models allows researchers to analyze cancer-specific mutations, monitor the behavior and chemical sensitivity of tumor lines based on their normal counterparts, and develop drugs or therapies to target specific cancers or cancer mutations.

TABLE 1. Tumor and normal cell lines from the same individual

Cancer type	Tissue source	Name	ATCC® No.	Tissue source	Name	ATCC® No.
Primary site of disease				Normal pairing		
Adenocarcinoma	Lung	NCI-H1395	CRL-5868™	Peripheral Blood	NCI-BL1395	CRL-5957™
Adenocarcinoma	Lung	NCI-H1437	CRL-5872™	Peripheral Blood	NCI-BL1437	CRL-5958™
Adenocarcinoma	Lung	NCI-H2009	CRL-5911™	Peripheral Blood	NCI-BL2009	CRL-5961™
Adenocarcinoma	Lung, lymph node (metastasis)	NCI-H2087	CRL-5922™	Peripheral Blood	NCI-BL2087	CRL-5965™
Adenocarcinoma	Lung, pleural effusion	NCI-H2122	CRL-5985™	Peripheral Blood	NCI-BL2122	CRL-5967™
Basal Cell Carcinoma	Skin	TE 354.T	CRL-7762™	Skin	TE 353.Sk	CRL-7761™
Benign Osteoid Osteoma	Bone	Hs 919.T	CRL-7672™	Skin	Hs 919.Sk	CRL-7671™
Carcinoma	Mammary gland; breast	Hs 605.T	CRL-7365™	Skin	Hs 605.Sk	CRL-7364™
Carcinoma	Mammary gland; breast	Hs 854.T	CRL-7590™	Skin	Hs 854.Sk	CRL-7589™
Ductal Carcinoma	Mammary gland; breast	HCC1008	CRL-2320™	Peripheral Blood	HCC1007 BL	CRL-2319™
Ductal Carcinoma	Mammary gland; breast	HCC1954	CRL-2338™	Peripheral Blood	HCC1954 BL	CRL-2339™
Ductal Carcinoma	Mammary gland; breast	Hs 578T	HTB-126™	Mammary Gland; Breast	Hs 578Bst	HTB-125™
Malignant Melanoma	Skin	COLO 829	CRL-1974™	Peripheral Blood	COLO 829BL	CRL-1980™
Melanoma	Skin	Hs 895.T	CRL-7637™	Skin	Hs 895.Sk	CRL-7636™
Mesothelioma	Lung, pleural effusion	NCI-H2052	CRL-5915™	Peripheral Blood	NCI-BL2052	CRL-5963™
Neuroendocrine Carcinoma	Lung, pleural effusion	NCI-H1770	CRL-5893™	Peripheral Blood	NCI-BL1770	CRL-5960™
Osteosarcoma	Bone	Hs 704.T	CRL-7444™	Skin	Hs 704.Sk	CRL-7443™
Osteosarcoma	Bone	Hs 707(A),T	CRL-7448™	Skin	Hs 707(B),Ep	CRL-7449™
Osteosarcoma	Bone	Hs 888.T	CRL-7622™	Lung	Hs888Lu	CCL-211™
Osteosarcoma	Bone	Hs 889.T	CRL-7626™	Skin	Hs 889.Sk	CRL-7625™
Osteosarcoma	Bone	Hs 890.T	CRL-7628™	Skin	Hs 890.Sk	CRL-7627™
Pagetoid Sarcoma	Skin	Hs 925.T	CRL-7677™	Skin	Hs 925.Sk	CRL-7676™
Primary Ductal Carcinoma	Mammary gland; breast	HCC38	CRL-2314™	Peripheral Blood	HCC38 BL	CRL-2346™
Primary Ductal Carcinoma	Mammary gland; breast	HCC1143	CRL-2321™	Peripheral Blood	HCC1143 BL	CRL-2362™
Primary Ductal Carcinoma	Mammary gland; breast	HCC1187	CRL-2322™	Peripheral Blood	HCC1187 BL	CRL-2323™
Primary Ductal Carcinoma	Mammary gland; breast	HCC1395	CRL-2324™	Peripheral Blood	HCC1395 BL	CRL-2325™
Primary Ductal Carcinoma	Mammary gland; breast	HCC1599	CRL-2331™	Peripheral Blood	HCC1599 BL	CRL-2332™
Primary Ductal Carcinoma	Mammary gland; breast	HCC1937	CRL-2336™	Peripheral Blood	HCC1937 BL	CRL-2337™
Primary Ductal Carcinoma	Mammary gland; breast	HCC2157	CRL-2340™	Peripheral Blood	HCC2157 BL	CRL-2341™

TABLE 1. Tumor and normal cell lines from the same individual (continued)

Cancer type	Tissue source	Name	ATCC® No.	Tissue source	Name	ATCC® No.
Primary site of disease				Normal pairing		
Primary Ductal Carcinoma	Mammary gland; breast	HCC2218	CRL-2343™	Peripheral Blood	HCC2218 BL	CRL-2363™
Scirrhus Adenocarcinoma	Mammary gland; breast	Hs 742.T	CRL-7482™	Skin	Hs 742.Sk	CRL-7481™
Small Cell Lung Cancer; Carcinoma	Lung	NCI-H1672	CRL-5886™	Peripheral Blood	NCI-BL1672	CRL-5959™
Non-Small Cell Lung Cancer; Carcinoma	Lung, lymph node (metastasis)	NCI-H2126	CCL-256™	Peripheral Blood	NCI-BL2126	CCL-256.1™
Small Cell Lung Cancer; Carcinoma	Lung	NCI-H1184	CRL-5858™	Peripheral Blood	NCI-BL1184	CRL-5949™
Small Cell Lung Cancer; Carcinoma	Lung	NCI-H2171	CRL-5929™	Peripheral Blood	NCI-BL2171	CRL-5969™
Small Cell Lung Cancer; Carcinoma	Lung	NCI-H2195	CRL-5931™	Peripheral Blood	NCI-BL2195	CRL-5956™
Small Cell Lung Cancer; Carcinoma	Bone marrow (metastasis)	NCI-H2107	CRL-5983™	Peripheral Blood	NCI-BL2107	CRL-5966™
Small Cell Lung Cancer; Carcinoma	Lung, pleural effusion	NCI-H128	HTB-120™	Peripheral Blood	NCI-BL128	CRL-5947™
Small Cell Lung Cancer; Carcinoma	Bone marrow (metastasis)	NCI-H209	HTB-172™	Peripheral Blood	NCI-BL209	CRL-5948™
Transitional Cell Carcinoma	Ureter	Hs 789.T	CRL-7886™	Skin	Hs 789.Sk	CRL-7518™


TABLE 2. Tumor and normal reference cell lines for detecting somatic mutations

Cancer type	Tissue source	Name	ATCC® No.	Tissue source	Name	ATCC® No.
Primary site of disease				Normal pairing		
Primary Ductal Carcinoma	Mammary gland; breast	HCC1395	SC-CRL-2324™	Peripheral Blood	HCC1395 BL	SC-CRL-2325™


TABLE 3. Primary and metastatic cell lines from the same individual

Cancer type	Tissue source	Name	ATCC® No.	Tissue source	Name	ATCC® No.
Primary site of disease				Metastatic pairing		
Colorectal Adenocarcinoma	Colon	SW480	CCL-228™	Lymph Node	SW620	CCL-227™
Melanoma	Skin	Hs 688(A).T	CRL-7425™	Lymph Node	Hs 688(B).T	CRL-7426™

More information on these and other tumor cell lines can be found at www.atcc.org.

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