

PRODUCT SPOTLIGHT

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™ |

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 | 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™ |
| 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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CB-112021-v05

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