



## ATCC® Genetic Alteration Panels

### Recommended Cell Culture Conditions

Catalog Numbers TCP-1027, -1028, -1029, -1030, -1031, -1032, -1033, -1034, -1035, and -1036

#### EGFR Genetic Alteration Cell Panel (ATCC® No. TCP-1027)

ATCC No.	Cell Line Name	Media	Seeding Density (cells/cm <sup>2</sup> )	Time to Subculture	Split Ratio
CRL-2868	HCC827	RPMI-1640 + 10% FBS	2x10 <sup>4</sup>	3-4 days	1:5
CRL-2871	HCC4006	RPMI-1640 + 10% FBS	2x10 <sup>4</sup>	4 days	1:5
CCL-231	SW48	Leibovitz's L-15 + 10% FBS	5x10 <sup>4</sup> - 1x10 <sup>5</sup>	4-5 days	1:5
CRL-5908	NCI-H1975	RPMI-1640 + 10% FBS	4x10 <sup>4</sup>	4-5 days	1:5
HTB-132	MDA-MB-468	Leibovitz's L-15 + 10% FBS	2x10 <sup>4</sup>	4-5 days	1:5
HTB-19	BT-20	RPMI-1640 + 10% FBS	2x10 <sup>4</sup> - 4x10 <sup>4</sup>	2-5 days	1:2 to 1:5
HTB-178	NCI-H596	EMEM + 10% FBS	2x10 <sup>4</sup> - 4x10 <sup>4</sup>	5-7 days	1:2 to 1:4
HTB-177	NCI-H460	RPMI-1640 + 10% FBS	6x10 <sup>4</sup>	3-4 days	1:10
CRL-5928	NCI-H2170	RPMI-1640 + 10% FBS	6x10 <sup>4</sup>	3-4 days	1:5
HTB-20	BT-474	HybriCare + 10% FBS	3x10 <sup>4</sup>	6-7 days	1:5
HTB-27	MDA-MB-361	Leibovitz's L-15 + 20% FBS	6x10 <sup>4</sup>	4-5 days	1:5

#### PI3K Genetic Alteration Cell Panel (ATCC® No. TCP-1028)

ATCC No.	Cell Line Name	Media	Seeding Density (cells/cm <sup>2</sup> )	Time to Subculture	Split Ratio
CCL-225	HCT-15	RPMI-1640 + 10% FBS	1.5x10 <sup>4</sup> - 2.5x10 <sup>4</sup>	3-4 days	1:6 to 1:10
CCL-237	SW948	Leibovitz's L-15 + 10% FBS	1.5x10 <sup>4</sup> - 2x10 <sup>5</sup>	5-7 days	1:4 to 1:6
CRL-1739	AGS	F-12K Medium + 10% FBS	1x10 <sup>4</sup> - 2x10 <sup>4</sup>	3-4 days	1:5 to 1:8
CRL-2577	RKO	EMEM + 10% FBS	2x10 <sup>4</sup> - 4x10 <sup>4</sup>	3-4 days	1:8 to 1:12
HTB-112	HEC-1-A	McCoy's 5A + 10% FBS	3x10 <sup>4</sup> - 4x10 <sup>4</sup>	3-4 days	1:4 to 1:6
HTB-121	BT-483	RPMI-1640 + 10 µg/mL insulin + 20% FBS	1.5x10 <sup>5</sup> - 2.5x10 <sup>5</sup>	5-7 days	1:2 to 1:4
HTB-131	MDA-MB-453	Leibovitz's L-15 + 10% FBS	5x10 <sup>4</sup> - 1x10 <sup>5</sup>	5-7 days	1:4 to 1:8
HTB-178	NCI-H596	RPMI-1640 + 10% FBS	2x10 <sup>4</sup> - 4x10 <sup>4</sup>	5-7 days	1:2 to 1:4
HTB-19	BT-20	EMEM + 10% FBS	2x10 <sup>4</sup> - 4x10 <sup>4</sup>	2-5 days	1:2 to 1:5
HTB-27	MDA-MB-361	Leibovitz's L-15 + 20% FBS	6x10 <sup>4</sup>	4-5 days	1:5

#### AKT Genetic Alteration Cell Panel (ATCC® No. TCP-1029)

ATCC No.	Cell Line Name	Media	Seeding Density (cells/cm <sup>2</sup> )	Time to Subculture	Split Ratio
CRL-2321	HCC1143	RPMI-1640 + 10% FBS	1.2x10 <sup>4</sup>	6-7 days	1:2 to 1:4
CRL-7245	Hs 343.T	DMEM + 10% FBS	8x10 <sup>3</sup>	6-7 days	1:2 to 1:4
CRL-1469	PANC-1	DMEM + 10% FBS	1x10 <sup>4</sup>	6-7 days	1:8 to 1:10
HTB-161	NIH: OVCAR-3	RPMI-1640 + 10 µg/mL insulin + 20% FBS	2x10 <sup>4</sup>	5-6 days	1:2 to 1:4
CRL-1622	KLE	DMEM:F12 Medium + 10% FBS	1.5x10 <sup>4</sup>	6-7 days	1:5 to 1:10
HTB-183	NCI-H661	RPMI-1640 + 10% FBS	5x10 <sup>4</sup>	4-5 days	1:6 to 1:12
HTB-20	BT-474	HybriCare + 10% FBS	3x10 <sup>4</sup>	6-7 days	1:6 to 1:9
HTB-128	MDA-MB-415	Leibovitz's L-15 + 10 µg/mL insulin	6x10 <sup>4</sup>	6-7 days	1:2 to 1:3

and 10 µg/mL glutathione + 15%;  
FBS

### PTEN Genetic Alteration Cell Panel (ATCC® No. TCP-1030)

ATCC No.	Cell Line Name	Media	Seeding Density (cells/cm <sup>2</sup> )	Time to Subculture	Split Ratio
CRL-1718	CCF-STTG1	RPMI-1640 + 10% FBS	2x10 <sup>4</sup>	5-6 days	1:2 to 1:4
HTB-111	AN3 CA	EMEM + 10% FBS	3x10 <sup>4</sup>	7 days	1:5 to 1:7
HTB-31	C-33-A	EMEM + 10% FBS	2x10 <sup>4</sup> – 4x10 <sup>4</sup>	3-4 days	1:8 to 1:10
HTB-66	RPMI-7951	EMEM + 10% FBS	2x10 <sup>4</sup>	5 days	1:5 to 1:7
HTB-148	H4	DMEM + 10% FBS	2x10 <sup>4</sup> – 4x10 <sup>4</sup>	3-4 days	1:8 to 1:12
HTB-12	SW 1088	Leibovitz's L-15 + 10% FBS	2x10 <sup>4</sup>	5-6 days	1:2 to 1:4
CRL-1585	C32	EMEM + 10% FBS	4x10 <sup>4</sup>	5 days	1:8
CRL-1620	A172	DMEM + 10% FBS	2.5x10 <sup>4</sup> – 4x10 <sup>4</sup>	3-4 days	1:8 to 1:10
HTB-1	J82	EMEM + 10% FBS	1.5x10 <sup>4</sup> – 2.5x10 <sup>4</sup>	3-4 days	1:8 to 1:10
CRL-11730	TOB-21G	1:1 mixture of MCDB 105 medium + 1.5 g/L NaHCO <sub>3</sub> + Medium 199 + NaHCO <sub>3</sub> 2.2 g/L + 15% FBS	1.5x10 <sup>4</sup> – 2.5x10 <sup>4</sup>	3-4 days	1:8 to 1:10

### RAS Genetic Alteration Cell Panel (ATCC® No. TCP-1031)

ATCC No.	Cell Line Name	Media	Seeding Density (cells/cm <sup>2</sup> )	Time to Subculture	Split Ratio
CRL-2177	SW 1271	Leibovitz's L-15+10%FBS	2x10 <sup>4</sup> – 4x10 <sup>4</sup>	3-5 days	1:3 to 1:6
CRL-2273	CHP-212	1:1 mixture of EMEM and F12 + 10% FBS	2x10 <sup>4</sup> – 4x10 <sup>4</sup>	5-7 days	1:5 to 1:20
CRL-7585	Hs 852.T	DMEM + 10% FBS	2x10 <sup>4</sup>	4-6 days	1:3 to 1:5
CRL-9068	NCI-H929	RPMI-1640 + 0.05 mM 2-mercaptoethanol + 10% FBS	3x10 <sup>5</sup>	4-7 days	1:2 to 1:4
TIB-202	THP-1	RPMI-1640 + 0.05 mM 2-mercaptoethanol + 10% FBS	2x10 <sup>5</sup> – 4x10 <sup>5</sup>	3-5 days	1:2 to 1:4
CRL-2547	Panc 10.05	RPMI-1640+10 Units/mL human recombinant insulin + 15% FBS	2x10 <sup>4</sup> – 4x10 <sup>4</sup>	5-7 days	1:5 to 1:10
CRL-2549	Panc 03.27	RPMI-1640+10 Units/mL human recombinant insulin +15% FBS	2x10 <sup>4</sup> – 4x10 <sup>4</sup>	2-4 days	1:5 to 1:10
HTB-174	NCI-H441	RPMI-1640 + 10% FBS	4x10 <sup>4</sup>	4 days	1:3 to 1:5
CL-187	LS 180	EMEM + 10% FBS	1x10 <sup>5</sup>	3-5 days	1:3 to 1:5
CCL-225	HCT-15	RPMI-1640 + 10% FBS	1.5x10 <sup>4</sup>	3-4 days	1:6 to 1:10

### BRAF Genetic Alteration Cell Panel (ATCC® No. TCP-1032)

ATCC No.	Cell Line Name	Media	Seeding Density (cells/cm <sup>2</sup> )	Time to Subculture	Split Ratio
CCL-224	COLO 201	RPMI-1640+10%FBS	2x10 <sup>4</sup> – 4x10 <sup>4</sup>	3-4 days	1:4 to 1:5
CCL-238	SW1417	Leibovitz's L-15+10%FBS	5x10 <sup>4</sup> – 6x10 <sup>4</sup>	3-4 days	1:3 to 1:5
CRL-11147	A2058	DMEM+10%FBS	5x10 <sup>4</sup>	3-5 days	1:5 to 1:10
CRL-2577	RKO	EMEM+10%FBS	2x10 <sup>4</sup> – 4x10 <sup>4</sup>	3-4 days	1:8 to 1:12
CRL-7898	A101D	EMEM+10%FBS	3x10 <sup>4</sup> – 4x10 <sup>4</sup>	4-5 days	1:4
HTB-123	DU4475	RPMI-1640+10%FBS	2x10 <sup>5</sup>	4-5 days	1:3 to 1:5
HTB-137	Hs 695T	EMEM+10%FBS	4x10 <sup>4</sup> – 5x10 <sup>4</sup>	4-5 days	1:3 to 1:5
HTB-66	RPMI-7951	EMEM+10%FBS	2x10 <sup>4</sup>	5 days	1:5 to 1:7

### ERK Genetic Alteration Cell Panel (ATCC® No. TCP-1033)

ATCC No.	Cell Line Name	Media	Seeding Density (cells/cm <sup>2</sup> )	Time to Subculture	Split Ratio
CRL-2577	RKO	EMEM+10%FBS	2x10 <sup>4</sup> – 4x10 <sup>4</sup>	3-4 days	1:8 to 1:12
CRL-9446	CHL-1	DMEM + 10% FBS	1x10 <sup>4</sup> – 2.5x10 <sup>4</sup>	2-4 days	1:6 to 1:10
HTB-111	AN3 CA	EMEM+10%FBS	3x10 <sup>4</sup>	7 days	1:5 to 1:7
HTB-2	RT4	McCoy's 5A	3x10 <sup>4</sup> – 7x10 <sup>4</sup>	3-6 days	1:2 to 1:5
HTB-65	MeWo	EMEM+10%FBS	3.5x10 <sup>4</sup> – 7x10 <sup>4</sup>	3-6 days	1:2 to 1:5
HTB-20	BT-474	HybriCare + 10% FBS	3x10 <sup>4</sup> – 1x10 <sup>5</sup>	4-7 days	1:2 to 1:9
HTB-9	5637	RPMI-1640 + 10%FBS	1x10 <sup>4</sup> – 3x10 <sup>4</sup>	2-4 days	1:5 to 1:10

### FGFR Genetic Alteration Cell Panel (ATCC® No. TCP-1034)

ATCC No.	Cell Line Name	Media	Seeding Density (cells/cm <sup>2</sup> )	Time to Subculture	Split Ratio
HTB-23	MDA-MB-134-	Leibovitz's L-15 + 20% FBS	1x10 <sup>5</sup> - 2x10 <sup>5</sup>	10-14 days	1:2 to 1:4
CRL-2066	DMS 114	Waymouth's MB 752/1 medium+10%FBS	1x10 <sup>4</sup> - 2x10 <sup>4</sup>	7-10 days	1:5 to 1:15
CCL-235	SW837	Leibovitz's L-15 + 10% FBS	3x10 <sup>4</sup> – 7x10 <sup>4</sup>	4-7 days	1:4 to 1:10
CCL-246	KG-1	IMDM + 20% FBS	2x10 <sup>5</sup>	5-6 days	1:6 to 1:10
CCL-247	HCT116	McCoy's 5A+ 10% FBS	5x10 <sup>3</sup> - 4x10 <sup>4</sup>	3-6 days	1:10 to 1:30
CRL-5974	SNU-16	RPMI-1640 + 10% FBS	2x10 <sup>5</sup> – 3x10 <sup>5</sup>	3-4 days	1:3 to 1:5
HTB-103	KATO III	IMDM + 20% FBS	2x10 <sup>4</sup> – 4x10 <sup>4</sup>	4-6 days	1:8 to 1:15
CRL-1739	AGS	F-12K Medium + 10% FBS	1x10 <sup>4</sup> – 2x10 <sup>4</sup>	3-4 days	1:5 to 1:8

### MYC Genetic Alteration Cell Panel (ATCC® No. TCP-1035)

ATCC No.	Cell Line Name	Media	Seeding Density (cells/cm <sup>2</sup> )	Time to Subculture	Split Ratio
CRL-1647	ST486	RPMI-1640 + 10% FBS	3x10 <sup>5</sup>	3-4 days	1:4 to 1:5
CRL-1648	CA46	RPMI-1640 + 10% FBS	2x10 <sup>5</sup>	2-4 days	1:8 to 1:12
HTB-62	P3HR-1	RPMI-1640 + 10% FBS	2x10 <sup>5</sup>	3-4 days	1:8 to 1:12
CRL-5974	SNU-16	RPMI-1640 + 10% FBS	2x10 <sup>5</sup> – 3x10 <sup>5</sup>	3-4 days	1:3 to 1:5
HTB-175	NCI-H82	RPMI-1640 + 10% FBS	1x10 <sup>5</sup> – 5x10 <sup>5</sup>	2-6 days	1:2 to 1:8
CRL-2081	MSTO-211H	RPMI-1640 + 10% FBS	3.5x10 <sup>4</sup> - 6x10 <sup>4</sup>	3-6 days	1:3 to 1:8
HTB-171	NCI-H446	RPMI-1640 + 10% FBS	3.5x10 <sup>4</sup> - 7x10 <sup>4</sup>	3-6 days	1:3 to 1:9
CCL-240	HL-60	IMDM + 20% FBS	1x10 <sup>5</sup> – 5x10 <sup>5</sup>	2-6 days	1:2 to 1:8
CRL-9068	NCI-H929	RPMI-1640 + 0.05 mM 2-ME + 10% FBS	3x10 <sup>5</sup> – 4x10 <sup>5</sup>	4-7 days	1:2 to 1:4

### MET Genetic Alteration Cell Panel (ATCC® No. TCP-1036)

ATCC No.	Cell Line Name	Media	Seeding Density (cells/cm <sup>2</sup> )	Time to Subculture	Split Ratio
CRL-5973	SNU-5	DMEM + 10% FBS	2x10 <sup>4</sup> – 4x10 <sup>4</sup>	7 days	1:3
HTB-135	Hs 746T	DMEM + 10% FBS	4x10 <sup>4</sup>	7 days	1:3
CRL-1585	C32	EMEM + 10% FBS	4x10 <sup>4</sup>	5 days	1:8
CRL-2351	AU565	RPMI-1640 + 10% FBS	4x10 <sup>4</sup>	4 days	1:3
CRL-5822	NCI-N87	RPMI-1640 + 10% FBS	5x10 <sup>4</sup> – 1x10 <sup>5</sup>	5-7 days	1:3 to 1:5