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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^2)	Time to Subculture	Split Ratio
CRL-2868	HCC827	RPMI-1640 + 10% FBS	$2x10^4$	3-4 days	1:5
CRL-2871	HCC4006	RPMI-1640 + 10% FBS	$2x10^4$	4 days	1:5
CCL-231	SW48	Leibovitz's L-15 + 10% FBS	$5x10^4$ - $1x10^5$	4-5 days	1:5
CRL-5908	NCI-H1975	RPMI-1640 + 10% FBS	$4x10^4$	4-5 days	1:5
HTB-132	MDA-MB-468	Leibovitz's L-15 + 10% FBS	$2x10^4$	4-5 days	1:5
HTB-19	BT-20	RPMI-1640 + 10% FBS	$2x10^4$ - $4x10^4$	2-5 days	1:2 to 1:5
HTB-178	NCI-H596	EMEM + 10% FBS	$2x10^4$ - $4x10^4$	5-7 days	1:2 to 1:4
HTB-177	NCI-H460	RPMI-1640 + 10% FBS	$6x10^4$	3-4 days	1:10
CRL-5928	NCI-H2170	RPMI-1640 + 10% FBS	$6x10^4$	3-4 days	1:5
HTB-20	BT-474	Hybricare + 10% FBS	$3x10^4$	6-7 days	1:5
HTB-27	MDA-MB-361	Leibovitz's L-15 + 20% FBS	$6x10^4$	4-5 days	1:5

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

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

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

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

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		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^2)	Time to Subculture	Split Ratio
CRL-1718	CCF-STTG1	RPMI-1640 + 10% FBS	$2x10^4$	5-6 days	1:2 to 1:4
HTB-111	AN3 CA	EMEM + 10% FBS	$3x10^4$	7 days	1:5 to 1:7
HTB-31	C-33-A	EMEM + 10% FBS	$2x10^4$ – $4x10^4$	3-4 days	1:8 to 1:10
HTB-66	RPMI-7951	EMEM + 10% FBS	$2x10^4$	5 days	1:5 to 1:7
HTB-148	H4	DMEM + 10% FBS	$2x10^4$ – $4x10^4$	3-4 days	1:8 to 1:12
HTB-12	SW 1088	Leibovitz's L-15 + 10% FBS	$2x10^4$	5-6 days	1:2 to 1:4
CRL-1585	C32	EMEM + 10% FBS	$4x10^4$	5 days	1:8
CRL-1620	A172	DMEM + 10% FBS	$2.5x10^4$ – $4x10^4$	3-4 days	1:8 to 1:10
HTB-1	J82	EMEM + 10% FBS	$1.5x10^4$ – $2.5x10^4$	3-4 days	1:8 to 1:10
CRL-11730	TOB-21G	1:1 mixture of MCDB 105 medium + 1.5 g/L NaHCO3 + Medium 199 + NaHCO3 2.2 g/L+15% FBS	$1.5x10^4$ – $2.5x10^4$	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^2)	Time to Subculture	Split Ratio
CRL-2177	SW 1271	Leibovitz's L-15+10%FBS	$2x10^4$ – $4x10^4$	3-5 days	1:3 to 1:6
CRL-2273	CHP-212	1:1 mixture of EMEM and F12 + 10% FBS	$2x10^4$ – $4x10^4$	5-7 days	1:5 to 1:20
CRL-7585	Hs 852.T	DMEM + 10% FBS	$2x10^4$	4-6 days	1:3 to 1:5
CRL-9068	NCI-H929	RPMI-1640 + 0.05 mM 2-mercaptoethanol + 10% FBS	$3x10^5$	4-7 days	1:2 to 1:4
TIB-202	THP-1	RPMI-1640 + 0.05 mM 2-mercaptoethanol + 10% FBS	$2x10^5$ – $4x10^5$	3-5 days	1:2 to 1:4
CRL-2547	Panc 10.05	RPMI-1640+10 Units/mL human recombinant insulin + 15% FBS	$2x10^4$ – $4x10^4$	5-7 days	1:5 to 1:10
CRL-2549	Panc 03.27	RPMI-1640+10 Units/mL human recombinant insulin +15% FBS	$2x10^4$ – $4x10^4$	2-4 days	1:5 to 1:10
HTB-174	NCI-H441	RPMI-1640 + 10% FBS	$4x10^4$	4 days	1:3 to 1:5
CL-187	LS 180	EMEM + 10% FBS	$1x10^5$	3-5 days	1:3 to 1:5
CCL-225	HCT-15	RPMI-1640 + 10% FBS	$1.5x10^4$	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^2)	Time to Subculture	Split Ratio
CCL-224	COLO 201	RPMI-1640+10%FBS	$2x10^4$ – $4x10^4$	3-4 days	1:4 to 1:5
CCL-238	SW1417	Leibovitz's L-15+10%FBS	$5x10^4$ – $6x10^4$	3-4 days	1:3 to 1:5
CRL-11147	A2058	DMEM+10%FBS	$5x10^4$	3-5 days	1:5 to 1:10
CRL-1676	WM-266-4	EMEM+10%FBS	$4x10^4$ – $7x10^4$	3-5 days	1:4 to 1:5
CRL-2577	RKO	EMEM+10%FBS	2x104 – $4x10^4$	3-4 days	1:8 to 1:12
CRL-7898	A101D	DMEM+10%FBS	$3x10^4$ – $4x10^4$	4-5 days	1:4
HTB-123	DU4475	RPMI-1640+10%FBS	$2x10^5$	4-5 days	1:3 to 1:5
HTB-137	Hs 695T	EMEM+10%FBS	$4x10^4$ – $5x10^4$	4-5 days	1:3 to 1:5
HTB-66	RPMI-7951	EMEM+10%FBS	$2x10^4$	5 days	1:5 to 1:7

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

ATCC No.	Cell Line Name	Media	Seeding Density (cells/cm^2)	Time to Subculture	Split Ratio
CRL-2577	RKO	EMEM+10%FBS	$2x10^4$ – $4x10^4$	3-4 days	1:8 to 1:12
CRL-9446	CHL-1	DMEM + 10% FBS	$1x10^4$ – $2.5x10^4$	2-4 days	1:6 to 1:10
HTB-111	AN3 CA	EMEM+10%FBS	$3x10^4$	7 days	1:5 to 1:7
HTB-2	RT4	McCoy's 5A	$3x10^4$ – $7x10^4$	3-6 days	1:2 to 1:5
HTB-65	MeWo	EMEM+10%FBS	$3.5x10^4$ – $7x10^4$	3-6 days	1:2 to 1:5
HTB-20	BT-474	Hybricare + 10% FBS	$3x10^4$ – $1x10^5$	4-7 days	1:2 to 1:9
HTB-9	5637	RPMI-1640 + 10%FBS	$1x10^4$ – $3x10^4$	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^2)	Time to Subculture	Split Ratio
HTB-23	MDA-MB-134-	Leibovitz's L-15 + 20% FBS	$1x10^5$- $2x10^5$	10-14 days	1:2 to 1:4
CRL-2066	DMS 114	Waymouth's MB 752/1 medium+10%FBS	$1x10^4$ - $2x10^4$	7-10 days	1:5 to 1:15
CCL-235	SW837	Leibovitz's L-15 + 10% FBS	$3x10^4$ – $7x10^4$	4-7 days	1:4 to 1:10
CCL-246	KG-1	IMDM + 20% FBS	$2x10^5$	5-6 days	1:6 to 1:10
CCL-247	HCT116	McCoy's 5A+ 10% FBS	$5x10^3$ - $4x10^4$	3-6 days	1:10 to 1:30
CRL-5974	SNU-16	RPMI-1640 + 10% FBS	$2x10^5$ – $3x10^5$	3-4 days	1:3 to 1:5
HTB-103	KATO III	IMDM + 20% FBS	$2x10^4$ – $4x10^4$	4-6 days	1:8 to 1:15
CRL-1739	AGS	F-12K Medium + 10% FBS	$1x10^4$ – $2x10^4$	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^2)	Time to Subculture	Split Ratio
CRL-1647	ST486	RPMI-1640 + 10% FBS	$3x10^5$	3-4 days	1:4 to 1:5
CRL-1648	CA46	RPMI-1640 + 10% FBS	$2x10^5$	2-4 days	1:8 to 1:12
HTB-62	P3HR-1	RPMI-1640 + 10% FBS	$2x10^5$	3-4 days	1:8 to 1:12
CRL-5974	SNU-16	RPMI-1640 + 10% FBS	$2x10^5$ – $3x10^5$	3-4 days	1:3 to 1:5
HTB-175	NCI-H82	RPMI-1640 + 10% FBS	$1x10^5$ – $5x10^5$	2-6 days	1:2 to 1:8
CRL-2081	MSTO-211H	RPMI-1640 + 10% FBS	$3.5x10^4$ - $6x10^4$	3-6 days	1:3 to 1:8
HTB-171	NCI-H446	RPMI-1640 + 10% FBS	$3.5x10^4$ - $7x10^4$	3-6 days	1:3 to 1:9
CCL-240	HL-60	IMDM + 20% FBS	$1x10^5$ – $5x10^5$	2-6 days	1:2 to 1:8
CRL-9068	NCI-H929	RPMI-1640 + 0.05 mM 2-ME + 10% FBS	$3x10^5$ – $4x10^5$	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^2)	Time to Subculture	Split Ratio
CRL-5973	SNU-5	DMEM + 10% FBS	$2x10^4$ – $4x10^4$	7 days	1:3
HTB-135	Hs 746T	DMEM + 10% FBS	$4x10^4$	7 days	1:3
CRL-1585	C32	EMEM + 10% FBS	$4x10^4$	5 days	1:8
CRL-2351	AU565	RPMI-1640 + 10% FBS	$4x10^4$	4 days	1:3
CRL-5822	NCI-N87	RPMI-1640 + 10% FBS	$5x10^4$ – $1x10^5$	5-7 days	1:3 to 1:5

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