

Plant Cultured Cell Lines Preserved in RIKEN BRC*

BRC No.	Line name	Common name	Species name	Specific features (provided by the depositors)	Medium type	Restriction**
rpc00001	BY-2	Tobacco	<i>Nicotiana tabacum</i>	Rapid cell proliferation	liquid	a
rpc00002	kurodagosun	Carrot	<i>Daucus carota</i>	Embryogenic cells	liquid	a
rpc00003	VR	Grape	<i>Vitis</i>	High anthocyanin production	agar	a
rpc00004	VW	Grape	<i>Vitis</i>	Low anthocyanin production	agar	a
rpc00005	PAR	Pokeweed	<i>Phytolacca americana</i>	High betacyanin production (red)	agar	a
rpc00006	PAP	Pokeweed	<i>Phytolacca americana</i>	Moderate betacyanin production (pink)	agar	a
rpc00007	PAW	Pokeweed	<i>Phytolacca americana</i>	Low betacyanin production (white)	agar	a
rpc00008	T87		<i>Arabidopsis thaliana</i>	Accession Columbia, partial chloroplast development under the light condition	liquid	a
rpc00009	T-13	Tobacco	<i>Nicotiana tabacum</i>	Coumarin production	liquid	a
rpc00010	Asp-86		<i>Asparagus officinalis</i>	[not available]	agar	a
rpc00011	Cba-1	Watermelon	<i>Citrullus battich</i>	High alkaline phosphodiesterase activity	agar	a
rpc00012	Sly-1	Tomato	<i>Solanum lycopersicum</i>	High alkaline phosphodiesterase activity	agar	a
rpc00013	Mar-1	Mint	<i>Mentha arvensis</i>	High alkaline phosphodiesterase activity	agar	a
rpc00014	CRA	Periwinkle	<i>Catharanthus roseus</i>	–	liquid	a
rpc00015	V208	Periwinkle	<i>Catharanthus roseus</i>	Crown gall cells (<i>Agrobacterium tumefaciens</i> A208), brassinosteroid production	liquid	a
rpc00016	Spi-WT	Spinach	<i>Spinacia oleracea</i>	–	liquid	a
rpc00017	Spi-I-1	Spinach	<i>Spinacia oleracea</i>	Nitrate reductase deficiency	liquid	a
rpc00018	Spi-12F	Spinach	<i>Spinacia oleracea</i>	Nitrate reductase deficiency	liquid	a
rpc00019	Lcy-1		<i>Luffa cylindrica</i>	[not available]	agar	a
rpc00020	OS-1	Rice	<i>Oryza sativa</i>	–	agar	a
rpc00021	Vma-1		<i>Vinca major</i>	–	agar	a
rpc00022	A.per		<i>Asparagus persicus</i>	–	agar	a
rpc00023	A.pas		<i>Asparagus pastorianus</i>	–	agar	a
rpc00024	A.plo		<i>Asparagus plocamoides</i>	–	agar	a
rpc00025	PSB	Sesame	<i>Sesamum indicum</i>	–	agar	a

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rpc00026	PSW	Sesame	<i>Sesamum indicum</i>	–	agar	a
rpc00027	PSG	Sesame	<i>Sesamum indicum</i>	–	agar	a
rpc00028	LcyD6	Sponge gourd	<i>Luffa cylindrica</i>	–	agar	a
rpc00029	LcyD7	Sponge gourd	<i>Luffa cylindrica</i>	–	agar	a
rpc00030	ZE3		<i>Zinnia elegans</i>	–	agar	a
rpc00031	Oc	Rice	<i>Oryza sativa</i>	Cells used for nurse culture, phytosulphokine- α production, high capacity to convert IAM to IAA	liquid	a
rpc00032	Lj		<i>Lotus japonicus</i>	–	liquid	b2
rpc00033	LjA		<i>Lotus japonicus</i>	–	agar	b2
rpc00034	LjmA		<i>Lotus japonicus</i>	–	agar	b2
rpc00035	Xan-1	Tobacco	<i>Nicotiana tabacum</i>	–	agar	a
rpc00036	BY-2H	Tobacco	<i>Nicotiana tabacum</i>	Habituated BY-2 cell line growing without plant hormones	agar	a
rpc00037	M18-1	Puccoon	<i>Lithospermum erythrorhizon</i>	High shikonin production	agar	b1 + b2
rpc00038	OM	Puccoon	<i>Lithospermum erythrorhizon</i>	Low shikonin production	agar	b2
rpc00039	GV7	Tobacco	<i>Nicotiana tabacum</i>	Transgenic BY-2 cell line expressing GFP-AtVAM3 that visualizes vacuolar membranes	liquid	b1 + e
rpc00040	GF11	Tobacco	<i>Nicotiana tabacum</i>	Transgenic BY-2 cell line expressing GFP-AtFim1 that visualizes actin filaments	liquid	b1 + e
rpc00041	GT16	Tobacco	<i>Nicotiana tabacum</i>	Transgenic BY-2 cell line expressing GFP-tubulin α that visualizes microtubules	liquid	b1 + e
rpc00042	TBY2-AtRER1B	Tobacco	<i>Nicotiana tabacum</i>	Transgenic BY-2 cell line expressing GFP-AtRer1B that visualizes Golgi bodies	gellan gum	b1
rpc00043	3n-3	Tobacco	<i>Nicotiana tabacum</i>	Crown gall cells (<i>Agrobacterium tumefaciens</i> A208)	agar	a
rpc00044	G89	Tobacco	<i>Nicotiana glauca</i>	–	agar	a
rpc00045	GCR26	Tomato	<i>Solanum lycopersicum</i>	–	liquid	b1
rpc00046	GCR237	Tomato	<i>Solanum lycopersicum</i>	Inhibition of viral RNA replication by plant resistance gene <i>Tm-1</i>	liquid	b1
rpc00047	Pn	Bamboo	<i>Phyllostachys nigra</i>	High accumulation of β -1,3-glucan in cell wall	liquid	b1
rpc00048	Pb	Bamboo	<i>Phyllostachys bambusoides</i>	High accumulation of β -1,3-glucan in cell wall	liquid	b1
rpc00049	YU-1	Grape	<i>Vitis vinifera</i>	Vigorous cell growth	liquid	e
rpc00050	YG1		<i>Arabidopsis thaliana</i>	Accession Columbia, cells maintained under the dark condition	liquid	b1
rpc00051	DG330	Soybean	<i>Glycine max</i>	Cells maintained without plant hormones, daidzein and genistein production	gellan gum	b1 + b3 + e

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rpc00052	Cl	Turmeric	<i>Curcuma longa</i>	Rapid cell proliferation, yellow pigment accumulation	agar	a
rpc00053	Co460	Cherry tree	<i>Prunus × yedoensis</i>	Cells maintained without plant hormones, anthocyanin production (dark red)	gellan gum	b1 + b3 + e
rpc00054	Cj		<i>Coptis japonica</i>	High berberine production and accumulation in vacuoles	agar	a
rpc00055	gnom		<i>Arabidopsis thaliana</i>	Cell line derived from <i>gnom</i> mutant	agar	e
rpc00056	At tom		<i>Arabidopsis thaliana</i>	Accession Columbia <i>tom1</i> (EMS) <i>tom3</i> (EMS) <i>thh1</i> (T-DNA) triple mutant, inhibition of tobamovirus multiplication	liquid	b1
rpc00057	GIW		<i>Glehnia littoralis</i>	Anthocyanin-non-producing (white) cells, production of coumarin derivatives by stress treatment	agar	b1
rpc00058	GIV		<i>Glehnia littoralis</i>	Anthocyanin-producing (violet) cells, production of coumarin derivatives	agar	b1
rpc00059	Dm		<i>Duboisia myoporoides</i>	Naringenin glycosylation, tropine acetylation, conversion of L-rhamnose to D-glucose	agar	b1
rpc00060	Ge	Liquorice	<i>Glycyrrhiza echinata</i>	Retrochalcone production (yellow) by elicitor treatment	agar	a
rpc00061	Ak-1	Liquorice	<i>Glycyrrhiza echinata</i>	Medicarpin production by elicitor treatment	agar	b1
rpc00062	BY-TIPG	Tobacco	<i>Nicotiana tabacum</i>	Transgenic BY-2 cell line expressing NtTIP1;1-GFP that visualizes vacuolar membrane	liquid	b1 + e
rpc00064	ToF	Dandelion	<i>Taraxacum officinale</i>	Anthocyanin production (dark purple)	agar	a
rpc00065	H440	Amaranth	<i>Amaranthus</i>	Cells maintained without plant hormones, betacyanin production (dark red)	gellan gum	b1 + b3 + e
rpc00066	P468	Peach	<i>Prunus persica</i>	Cells maintained without plant hormones, anthocyanin production (dark red)	gellan gum	b1 + b3 + e
rpc00067	SB489	Strawberry	<i>Fragaria × ananassa</i>	Cells maintained without plant hormones, anthocyanin production (dark red)	gellan gum	b1 + b3 + e
rpc00068	TA416		<i>Commelina communis</i>	Cells maintained without plant hormones, anthocyanin production (dark blue)	gellan gum	b1 + b3 + e
rpc00069	156-S		<i>Coptis japonica</i>	Transgenic cell line over-expressing <i>Coptis SMT</i> gene, high berberine production (yellow)	liquid	b1 + b2 + e
rpc00084	NI	Tobacco	<i>Nicotiana tabacum</i>	Photoautotrophic cell line	liquid	b1 + b2 + e
rpc00085	ATR-r	Tobacco	<i>Nicotiana tabacum</i>	Atrazine- and 3-(3,4-dichlorophenyl)-1,1-dimethylurea-resistant NI cell line	liquid	b1 + b2 + e
rpc00086	NaCl-r	Tobacco	<i>Nicotiana tabacum</i>	NaCl-adapted NI cell line	liquid	b1 + b2 + e
rpc00087	BsLs		<i>Bruguiera sexangula</i>	Suspension cell line derived from a mangrove species, high salt tolerance	liquid	b1
rpc00100	AY-01		<i>Athyrium yokoscense</i>	High cadmium tolerance	liquid	a

***Web catalog:** https://plant.rtc.riken.jp/resource/cell_line/cell_line_list.html

****Restriction:** **a**, no specific restriction; **b1**, citation of designated manuscript in user's publications required; **b2**, acknowledgement to the depositor and/or the developer in user's publications required; **b3**, approval form with specific terms and conditions from the depositor required; **e**, form(s) specific to the resource required

2022.03.16