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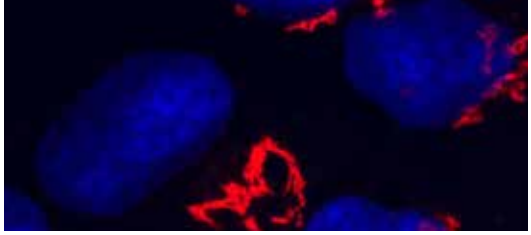

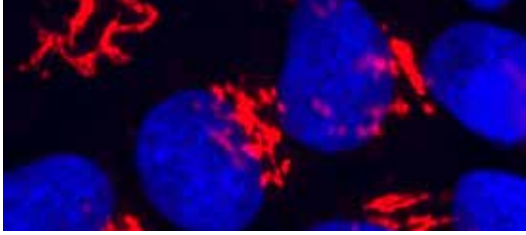

ATCC®

CELL DEATH PATHWAY BCL-2 FAMILY CELL LINE PANELS 1 & 2

The Cell Death Pathway BCL-2 Family Cell Line Panels 1 & 2 are useful for the study of cell apoptosis signaling pathways, BCL-2 family member molecular mechanisms, and mitochondrial dysfunction. Panel 1 (ATCC® No. TCP-2100™) is composed of five cell lines that stably overexpress either wild-type BCL-2 or a mutant form of BCL-2. Panel 2 (ATCC® No. TCP-2110™) is composed of seven immortalized mouse embryonic fibroblast cell lines generated from a set of BCL-2 family member gene knockout mice. The table below provides more information for the cell lines included in these panels.

	ATCC® No.	Designation	Source	Cell type	Transfected gene	Significant features	Verification
BCL-2 Family Cell Panel 1 (ATCC® No. TCP-2100™)®	CRL-2898™	Neo Jurkat	acute T cell leukemia	Immortalized T lymphocyte	Empty vector	Normal expression of wild-type BCL-2	ATCC in-house sequencing
	CRL-2899™	BCL2 Jurkat	acute T cell leukemia	Immortalized T lymphocyte	BCL-2	Stable overexpression of anti-apoptosis gene BCL-2	ATCC in-house sequencing
	CRL-2900™	BCL2 (S70A) Jurkat	acute T cell leukemia	Immortalized T lymphocyte	BCL2 (S70A)	Stable overexpression of BCL-2 with a mutation at phosphorylation site Ser70	ATCC in-house sequencing
	CRL-2901™	BCL2 (S87A) Jurkat	acute T cell leukemia	Immortalized T lymphocyte	BCL2 (S87A)	Stable overexpression of BCL-2 with a substitution mutation at phosphorylation site Ser87	ATCC in-house sequencing
	CRL-2902™	BCL2 (AAA) Jurkat	acute T cell leukemia	Immortalized T lymphocyte	BCL2 (AAA)	Stable overexpression of BCL-2 with a triple substitution at phosphorylation site Thr69, Ser70, and Ser87	ATCC in-house sequencing

	ATCC® No.	Designation	Source	Cell type	Genotype	Significant features	Verification
BCL-2 Family Cell Panel 2 (ATCC® No. TCP-2110™)	CRL-2907™	WT SV40 MEF	Embryo	immortalized mouse embryonic fibroblast	Wild type	Immortalized MEFs.	ATCC in-house qPCR test
	CRL-2908™	BCL2 KO SV40 MEF	Embryo	immortalized mouse embryonic fibroblast	BCL-2 knockout	Immortalized MEFs generated from anti-apoptosis BCL-2 gene knockout mice.	ATCC in-house qPCR test
	CRL-2909™	BAD KO SV40 MEF	Embryo	immortalized mouse embryonic fibroblast	BAD knockout	Immortalized MEFs generated from pro-apoptosis BAD gene knockout mice.	ATCC in-house qPCR test
	CRL-2910™	BAX KO SV40 MEF	Embryo	immortalized mouse embryonic fibroblast	BAX knockout	Immortalized MEFs generated from pro-apoptosis BAX gene knockout mice.	ATCC in-house qPCR test
	CRL-2911™	BID KO SV40 MEF	Embryo	immortalized mouse embryonic fibroblast	BID knockout	Immortalized MEFs generated from pro-apoptosis BID gene knockout mice.	ATCC in-house qPCR test
	CRL-2912™	BAK KO SV40 MEF	Embryo	immortalized mouse embryonic fibroblast	BAK knockout	Immortalized MEFs generated from pro-apoptosis BAK gene knockout mice	ATCC in-house qPCR test
	CRL-2913™	BAX BAK DKO SV40 MEF	Embryo	immortalized mouse embryonic fibroblast	BAX & BAK double knockout	Immortalized MEFs generated from pro-apoptosis BAX and BAK double knockout mice. The cells are resistant to multiple apoptotic stimuli.	ATCC in-house qPCR test

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Immunofluorescence Human Embryonic Stem cells image courtesy M. Deshmukh, R. Dimitru, V. Gama, B.M. Fagan, J.J. Bower, V. Swahari, and L.H. Pevney

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