

451Lu BR Purified Genomic DNA - 451Lu BR-02-1000
Code: 451Lu BR-02-1000

Size: 10 µg

Product Description: 451Lu BR Purified Genomic DNA - 451Lu BR-02-1000

Concentration: 200 ng / µl by UV absorbance at 260 nm

PhysicalState: Liquid

Label	Unconjugated
Buffer	0.01 M Tris Chloride, 0.001 M EDTA, pH 7.6
Stabilizer	None
Preservative	None
Storage Condition	Store vial at -20° C or COLDER. For extended storage, aliquot contents to minimize freeze/thaw cycles.
Synonyms	Melanoma, patient derived tumor, tumor models, skin cancer, xenograft
Application Note	Purified Genomic DNA is suitable for a number of molecular biology applications including but not limited to preparation of genomic libraries, PCR templates, DNA sequencing, DNA fingerprinting, and mutation analysis.
Background	DNA was prepared from cell line 451Lu BR. 451Lu BR is a human metastatic melanoma cell line. This cell line is resistant to BRAF and MEK inhibitors. This cell line features the specific V600E (Val600Glu) mutation at codon 600 in the BRAF gene. This mutation causes constitutively active kinase activity and activation of MEK and ERK signaling pathway. This cell line was derived from the same patient as the cell lines, WM164, and 451Lu. 451Lu BR cells produce xenograft tumors when injected into immunocompromised mice.
Purity And Specificity	Genomic DNA was purified from cells using genomic DNA preparaton kit according to manufacturers instruction. DNA was diluted to 200 ng/µL in TE buffer (0.01 M Tris Chloride, 0.001 M EDTA, pH 7.6). Concentration was determined at A260 using nanodrop ND-1000.
Expiration	Expiration date is six (6) months from date of opening.
General Reference	Greshock J, Nathanson K, Martin AM, Zhang L, Coukos G, Weber BL, Zaks TZ. (2007) Cancer cell lines as genetic models of their parent histology: analyses based on array comparative genomic hybridization. <i>Cancer Res.</i> 2007 Apr 15; 67(8):3594-600. Barretina J, Caponigro G, Stransky N. (2012) The Cancer Cell Line Encyclopedia enables predictive modelling of anticancer drug sensitivity. <i>Nature</i> 2012 Mar 28; 483 (7391): 603-607. doi: 10.1038/nature11003. Lin WM, Baker AC, Beroukhim R. (2008) Modeling genomic diversity and tumor dependency in malignant melanoma. <i>Cancer Res.</i> 2008 Feb 1; 68(3): 664-673. Doi: 10.1158/0008-5472.
Stage	BRAF Resistant
BRAF	V600E
PTEN	ND
NRAS	WT
CKIT	WT
CDK4	WT
Patient ID	1001
Paired	Yes
Cell Line Product Type	DNA
Cell Viability	No

Related Products

FBS-01-0100	FETAL BOVINE SERUM, Certified, Heat Inactivated Origin: United States triple 0.1 micron filtered - FBS-01-0100
MB-006	10X TE pH 7.5 (100 mM Tris HCl 10 mM EDTA) DEPC TREATED - MB-006
MB-009-1000	UltraPure Sterile Water - MB-009-1000

MB-017 10X SDS-PAGE Running Gel Buffer (0.25 M Tris HCl, 1.92 M Glycine, 1.0% SDS pH 8.3) - MB-017

Related Links

[Cell Line EULA](#)

Images

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Human melanoma tumor cell genomic DNA isolated with genomic DNA miniprep kit



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