

IDEXX Bioresearch Case # 53115-2015

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Submitted By

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Specimen Description

Species: mouse
Description: cells
Number of Specimens/Animals: 1

Client ID	Investigator	Cell Line	Strain	Specimen	Cell line names
GH-661WP5	Mary Luz Uribe	661W	C57BL/6	cells	661W

Services/Tests Performed: CellCheck - mouse

Genetic evaluation for: Interspecies Contamination Test, Mouse STR Profile

Summary: Cell Check: The sample was confirmed to be of mouse origin and no mammalian interspecies contamination was detected. A genetic profile was generated for the sample by using a panel of microsatellite markers for genotyping. This data is presented in the table as allele sizes in bp. Please note that a 1 base pair difference in allele sizes between the sample and the mouse strain comparison profiles represents run-to-run variability only and sizes 2 base pairs or greater represent different allele sizes between the sample and the comparison profile.

A genetic profile has not previously been established for the 661W cell line, but the genetic profile of the sample is consistent with a mixed FVB and C57BL/6 mouse strain of origin. This strain origin matches to strains listed in the original publications for this cell line (Journal of Biological Chemistry, 1999, 274(6):3734-3743 and Journal of Cell Biology, 1992, 119(6):1681-1687). Please note that additional testing confirming that the cell line carries the HIT1 transgene described in the 1992 manuscript along with the consistent strain profile generated on this report would provide confirmation of the cell line origin. PCR primers for the transgene are listed in the 1992 publication.

Please see the report for details.

CELL CHECK

Species-specific PCR Evaluation

Species	GH-661WP5
mouse	+
rat	-
human	-
Chinese hamster	-
African green monkey	-

Marker Analysis

Marker Name	GH-661WP5		
	Sample Results	C57BL/6NCr	FVB/N
4	156, 158	156	158
5	110, 113	113	110
136	149, 162	149	162
78	196, 202	196	202
134	109, 111	111	109
14	94, 106	95	106
94	113	113	113
16	136, 144	136	144
139	121, 123	121	123
144	192, 211	193	211
25	134, 140	141	135
163	219	219	240
133	81	81	68
138	191	191	186
27	150, 161	150	161
39	141, 174	174	141
141	95, 122	95	122
165	197	197	197
74	102, 119	119	102
111	149	149	149
20	253, 159	153	159
31	167, 198	198	167
137	200, 204	204	201
143	134	132	134
53	95, 97	96	98
171	210, 216	210	216
47	113, 119	114	119