

Fragile X Reference Materials Characterized by GeT-RM & Other Sources

Cell Repository	DNA Number	(CGG)n repeat length Allele 1 ¹	(CGG)n repeat length Allele 2 ¹	Gender	Characterization Methods ¹ (# labs)
Coriell	NA07538	29	29	F	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs)
Coriell	NA20238	29	30	F	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs)
Coriell	NA07174	30		M	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs), DNA sequence (1 lab)
Coriell	NA20244	41		M	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs), DNA sequence (1 lab)
Coriell	NA20243	29	41	F	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs)
Coriell	NA20235	29	45	F	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs)
Coriell	NA20232	46		M	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs), DNA sequence (1 lab)
Coriell	NA20234	31	46	F	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs)
Coriell	NA20230	53 (54 by DNA sequence)		M	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs), DNA sequence (1 lab)
Coriell	NA20236	31	53	F	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs)
Coriell	CD00014	56		M	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs), DNA sequence (1 lab), PCR/Southern blot (10 labs) ⁴
Coriell	NA20242	30	73	F	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs)
Coriell	NA20231	76 (78 by DNA sequence)		M	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs), DNA sequence (1 lab)
Coriell	NA20240	30	80	F	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs)
Coriell	NA06892	86		M	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs), DNA sequence (1 lab)
Coriell	NA20233	117 (consensus on only Celera platform)		M	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs)
Coriell	NA20237	No consensus on either platform, submitter estimate = 120		M	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs)
Coriell	NA20241	29	No consensus on either platform, submitter estimate = 120	F	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs)
Coriell	NA20239	20	No consensus on either platform, Submitter estimate = 200	F	LDA ² (9 labs), Celera Diagnostics RUO ³ assay (9 labs)

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¹Jean Amos Wilson, Victoria M. Pratt, Amit Phansalkar, Kasinathan Muralidharan, W. Edward Highsmith Jr, Jeanne C. Beck, Scott Bridgeman, Ebony M. Courtney, Lidia Epp, Andrea Ferreira-Gonzalez, Nick L. Hjelm, Leonard M. Holtegaard, Mohamed A. Jama, John P. Jakupciak, Monique A. Johnson, Paul Labrousse, Elaine Lyon, Thomas W. Prior, C. Sue Richards, Kristy L. Richie, Benjamin B. Roa, Elizabeth M. Rohlfs, Tina Sellers, Stephanie L. Sherman, Karen A. Siegrist, Lawrence M. Silverman, Joanna Wiszniewska, Lisa V. Kalman. Consensus Characterization of 16 *FMR1* Reference Materials: A Consortium Study. Journal of Molecular Diagnostics 2008

²LDA- Laboratory Developed Assay

³ROU- Research Use Only reagent

⁴Previous project (<http://www.cdc.gov/dls/genetics/tcl.aspx>)