Mumma Project 12 Marker Genetic Distance

Genetic Distance

ID	Modal	M-01	M-02	M-03	M-04	M-05	M-06	M-07	M-08	M-09	M-10	M-11	M-12	M-13	M-14	M-15	M-16	M-17	M-18	M-19	M-21	M-22	M-25	M-26	M-27	M-29	M-30	M-31	M-32	M-34	M-35	728	1860	1861	1862	3314	3315	3316	3317	7055	7056	7057	10612	10613	10614	10615	10617	10619	10975	20816	21370	21946	21947	21948	39581	39609	62454
Modal	12	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-01	0	12	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-02	0	0	12	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-03	0	0	0	12	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-04	1	1	1	1	12	1	2	1	1	1	1	2	1	1	1	1	2	2	1	0	1	1	1	2	2	1	0	1	1	1	0	1	0	0	1	1	0	2	2	2	1	2	0	1	1	1	0	1	1	2	1	1	2	2	1	1	1
M-05	0	0	0	0	1	12	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-06	1	1	1	1	2	1	12	1	1	1	1	0	1	1	2	1	0	2	1	2	1	1	1	2	2	1	2	1	1	1	2	1	2	2	1	1	2	2	0	2	1	2	2	1	1	2	1	1	2	1	1	2	0	1	1	1
M-07	0	0	0	0	1	0	1	12	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	1	0	0	1	0	0	1	1	0	0	0
M-08	0	0	0	0	1	0	1	0	12	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-09	0	0	0	0	1	0	1	0	0	12	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-10	0	0	0	0	1	0	1	0	0	0	12	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-11	1	1	1	1	2	1	0	1	1	1	1	12	1	1	2	1	0	2	1	2	1	1	1	2	2	1	2	1	1	1	2	1	2	2	1	1	2	2	0	2	1	2	2	1	1	1	2	1	1	2	1	1	2	0	1	1	1
M-12	0	0	0	0	1	0	1	0	0	0	0	1	12	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-13	0	0	0	0	1	0	1	0	0	0	0	1	0	12	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-14	1	1	1	1	1	1	2	1	1	1	1	2	1	1	12	1	2	2	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	2	1	1	1	1	1	1	1	2	1	1	2	2	1	1	1
M-15	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	12	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-16	1	1	1	1	2	1	0	1	1	1	1	0	1	1	2	1	12	2	1	2	1	1	1	2	2	1	2	1	1	1	2	1	2	2	1	1	2	2	0	2	1	2	2	1	1	1	2	1	1	2	1	1	2	0	1	1	1
M-17	1	1	1	1	2	1	2	1	1	1	1	2	1	1	2	1	2	12	1	2	1	1	1	2	2	1	2	1	1	1	2	1	2	2	1	1	2	2	2	2	1	2	2	1	1	1	2	1	1	2	1	1	2	2	1	1	1
M-18	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	12	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-19	1	1	1	1	0	1	2	1	1	1	1	2	1	1	1	1	2	2	1	12	1	1	1	2	2	1	0	1	1	1	0	1	0	0	1	1	0	2	2	2	1	2	0	1	1	1	0	1	1	2	1	1	2	2	1	1	1
M-21	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	12	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-22	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	12	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-25	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	12	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-26	1	1	1	1	2	1	2	1	1	1	1	2	1	1	2	1	2	2	1	2	1	1	1	12	0	1	2	1	1	1	2	1	2	2	1	1	2	0	2	2	1	0	2	1	1	1	2	1	1	0	1	1	0	2	1	1	1
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M-29	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	12	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
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M-31	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	12	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-32	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	12	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-34	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	12	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
M-35	1	1	1	1	0	1	2	1	1	1	1	2	1	1	1	1	2	2	1	0	1	1	1	2	2	1	0	1	1	1	12	1	0	0	1	1	0	2	2	2	1	2	0	1	1	1	0	1	1	2	1	1	2	2	1	1	1
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3314	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	12	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	0
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10614	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	12	0	1	0	0	1	0	0	1	1	0	0	0
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10617	1	1	1	1	0	1	2	1	1	1	1	2	1	1	1	1	2	2	1	0	1	1	1	2	2	1	0	1	1	1	0	1	0	0	1	1	0	2	2	2	1	2	0	1	1	1	12	1	1	2	1	1	2	2	1	1	1
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10975	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	12	1	0	0	1	1	0	0	0
20816	1	1	1	1	2	1	2	1	1	1	1	2	1	1	2	1	2	2	1	2	1	1	1	0	0	1	2	1	1	1	2	1	2	2	1	1	2	0	2	2	1	0	2	1	1	1	2	1	1	12	1	1	0	2	1	1	1
21370	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	12	0	1	1	0	0	0
21946	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	12	1	1	0	0	0
21947	1	1	1	1	2	1	2	1	1	1	1	2	1	1	2	1	2	2	1	2	1	1	1	0	0	1	2	1	1	1	2	1	2	2	1	1	2	0	2	2	1	0	2	1	1	1	2	1	1	0	1	1	12	2	1	1	1
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39581	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	12	0	0
39609	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	12	0
62454	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	1	0	0	12

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FTDNA's Interpreting Genetic Distance for 25 Markers

FTDNA's Interpreting Genetic Distance for 37 Markers

- Infinite allele mutation model is used
- Values on the diagonal indicate number of markers tested