### Supplemental table 1. Antibody titers

| Pt | Age at death | Current dose of ERT (years) | Start dose of ERT | CRIM status | Age After start of ERT | Antibody titer (years after start of ERT) | Immunomodulation | Genotype | Mutation 1 | Mutation 2 |
|----|--------------|-----------------------------|------------------|-------------|------------------|---------------------------------------------|-----------------|----------|------------|------------|
| 3  | 0.1          | 9.8                         | 20               | +           |                  | 1:6,250 (0.3) 1:250 (9.5)                  | -               | c.1460T>C | c.1460T>C  |
| 8  | 0.3          | 6.2                         | 40               | +           |                  | 1:250 (1.9) 1:250 (4.8)                    | -               | c.525delT | c.1933G>A  |
| 1  | 0.5          | 12.2                        | 20               | +           |                  | 1:1,250 (0.2) 1:250 (12.0)                 | -               | c.2481+102_2646+31del | c.2481+102_2646+31del |
| 2  | 1.2          | 12.6                        | 20               | +           |                  | 1:6,250 (0.5) 1:6,250 (12.0)               | -               | c.del525T | c.1933G>T  |
| 5  | 1.9          | 4.4                         | 20               | -           |                  | 1:6,250 (0.7) 1:50 (3.4)                   | -               | c.2741delinsCAG | c.2741delinsCAG |
| 16 | 1.9          | 3.1                         | 40               | -           |                  | 1:781,250 (0.5) 1:156,250 (2.7)            | -               | c.525delT | c.525delT   |
| 4  | 2.2          | 9.3                         | 20               | +           |                  | 1:31,250 (0.3) 1:6,250 (8.4)               | -               | c.525delT | c.2481+102_2646+31del |
| 7  | 2.4          | 8.3                         | 40               | +           |                  | 1:156,250 (6.2) 1:156,250 (8.0)            | -               | c.2481+102_2646+31del | c.2481+102_2646+31del |
| 13 | 3.1          | 3.1                         | 40               | +           |                  | 1:781,250 (1.8) 1:156,250 (2.8)            | -               | c.2104C>T | c.2481+102_2646+31del |
| 12 | 3.1          | 3.8                         | 40               | +           |                  | 1:781,250 (2.8) 1:781,250 (3.5)            | +               | c.525delT | c.2481+102_2646+31del |
| 15 | 3.3          | 3.3                         | 40               | +           |                  | 1:6,250 (1.0) 1:250 (3.0)                  | +               | c.2481+102_2646+31del | c.2481+102_2646+31del |
| 6  | 3.6          | 0.6                         | 20               | -           |                  | 1:31,250 (0.2) 1:31,250 (0.3)              | -               | c.379delTG | c.del525T   |
| 11 | 3.8          | 6.0                         | 40               | +           |                  | 1:156,250 (0.2) 1:156,250 (5.0)            | -               | c.2481+102_2646+31del | c.525delT   |
| 9  | 4.3          | 4.0                         | 40               | +           |                  | 1:6,250 (1.1) 1:250 (3.5)                  | +               | c.1551+1G>A | c.1551+1G>A |
| 18 | 4.5          | 2.9                         | 40               | -           |                  | 1:781,250 (2.3) 1:781,250 (2.5)            | +               | c.525delT | c.525delT   |
| 10 | 4.6          | 6.2                         | 40               | +           |                  | 1:31,250 (0.2) 1:6,250 (5.0)               | -               | c.2104C>T | c.379_380delTG |
| 14 | 4.8          | 5.1                         | 40               | +           |                  | 1:6,250 (0.2) 1:250 (4.6)                  | -               | c.925G>A | c.2608C>T   |
| 17 | 5.8          | 4.8                         | 40               | -           |                  | 1:800,000 (1.1) 1:6,250 (3.7)              | +               | c.525delT | c.525delT   |

**Pt** Patient number, **ERT** enzyme-replacement therapy

*a* Age at death

*b* Dose was augmented to 40mg/kg/week during treatment

*c* Age at which peak titer was reached for first time