Reviewer's report

Title: The Facioscapulohumeral muscular dystrophy region on 4qter and the homologous locus on 10qter evolved independently under different evolutionary pressure.

Version: 3 Date: 17 January 2007

Reviewer: Jane Hewitt

Reviewer's report:

General
Overall, this is a much improved manuscript. The results and conclusions are now much clearer and the relevance of the findings to FSHD are more apparent.

Major Compulsory Revisions (that the author must respond to before a decision on publication can be reached)

Minor Essential Revisions (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct)

Page 2 last sentence statement iv) is unclear as written (it seems to imply that the authors have sequenced the qA and qB alleles which is not what they mean) > This should be changed to something like "the association of the qA and qB telomeric alleles with standard and variant alleles was determined".

Page 9 section on 4q variant alleles, line 1. This sentence should read We observed Blnl-sensitive repeats upstream of the Blnl-resistant units....

Discretionary Revisions (which the author can choose to ignore)

What next?: Accept after minor essential revisions

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:
I declare that I have no competing interests