Assignment\(^1\) of the equine solute carrier 26A2 gene (SLC26A2) to equine chromosome 14q15→q21 (ECA14q15→q21) by in situ hybridization and radiation hybrid panel mapping

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\(^1\) To our knowledge this is the first time this gene has been mapped.
Fig. 1. Fluorescence in situ hybridization of the equine SLC26A2 gene. Specific signals were detected on chromosome 14q15→q21 (arrows). An enlarged detail of chromosome 14 with signals on both chromatids is shown in the lower left corner.

Results

The equine SLC26A2 gene maps to the second linkage group on ECA14. The gene order in this region is CSF1R-SLC26A2-cGMP-alpha subunit with CSF1R (colony stimulating factor 1 receptor) mapping 9.87 cR (lod >3.0) and cGMP-alpha subunit (rod photoreceptor cGMP phosphodiesterase alpha-subunit) 7.26 cR (lod >3.0) from SPARC (secreted protein acidic and rich in cysteine, osteonectin). SPARC has been assigned to human chromosome 5q31.3→q32 and is therefore in agreement with this linkage group.

Mapping data:
- **Most precise location:** ECA14q15→q21
- **No. of cells examined:** 30
- **Number of chromosomes examined:** 60
- **Number of cells with specific signal:** 1 (0), 2 (2), 3 (0), 4 (26) chromatids per cell

References


