

## Figure S2: Overview of the NSCL/P endophenotypic traits

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### Segment 1



Endophenotypic trait in segment 1. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 1. Blue, inward depression; red, outward protrusion.

### Segment 4



Endophenotypic trait in segment 4. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 4. Blue, inward depression; red, outward protrusion.

### Segment 2



Endophenotypic trait in segment 2. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 2. Blue, inward depression; red, outward protrusion.

### Segment 5



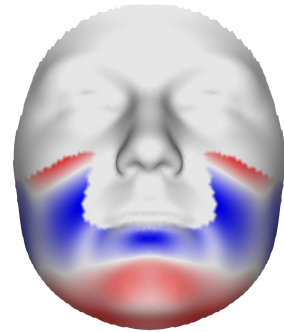
Endophenotypic trait in segment 5. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 5. Blue, inward depression; red, outward protrusion.

### Segment 3



Endophenotypic trait in segment 3. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 3. Blue, inward depression; red, outward protrusion.

### Segment 6



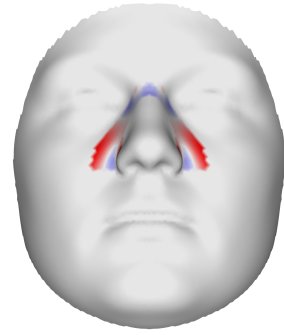
Endophenotypic trait in segment 6. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 6. Blue, inward depression; red, outward protrusion.

### Segment 7



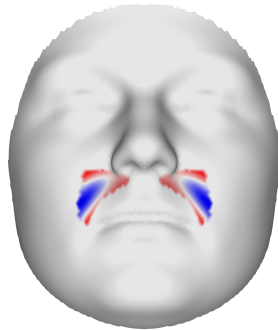
Endophenotypic trait in segment 7. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 7. Blue, inward depression; red, outward protrusion.

### Segment 10



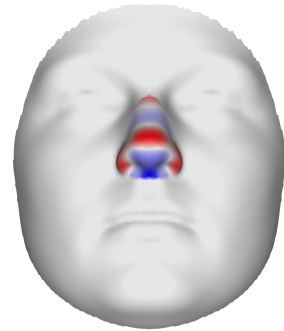
Endophenotypic trait in segment 10. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 10. Blue, inward depression; red, outward protrusion.

### Segment 8



Endophenotypic trait in segment 8. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 8. Blue, inward depression; red, outward protrusion.

### Segment 11



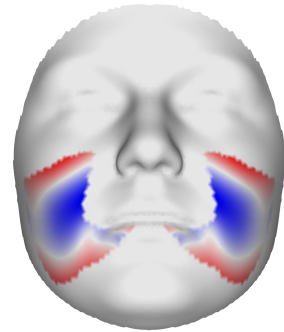
Endophenotypic trait in segment 11. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 11. Blue, inward depression; red, outward protrusion.

### Segment 9



Endophenotypic trait in segment 9. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 9. Blue, inward depression; red, outward protrusion.

### Segment 12



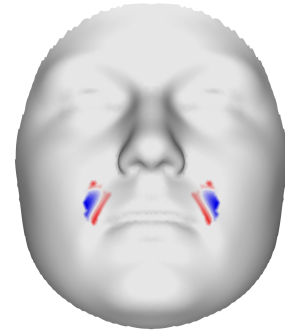
Endophenotypic trait in segment 12. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 12. Blue, inward depression; red, outward protrusion.

### Segment 13



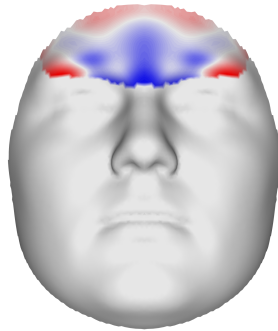
Endophenotypic trait in segment 13. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 13. Blue, inward depression; red, outward protrusion.

### Segment 16



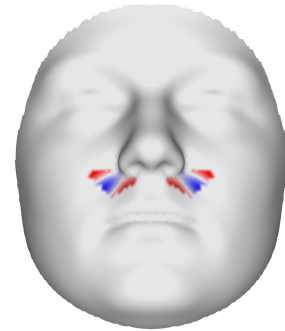
Endophenotypic trait in segment 16. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 16. Blue, inward depression; red, outward protrusion.

### Segment 14



Endophenotypic trait in segment 14. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 14. Blue, inward depression; red, outward protrusion.

### Segment 17



Endophenotypic trait in segment 17. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 17. Blue, inward depression; red, outward protrusion.

### Segment 15



Endophenotypic trait in segment 15. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 15. Blue, inward depression; red, outward protrusion.

### Segment 18



Endophenotypic trait in segment 18. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 18. Blue, inward depression; red, outward protrusion.

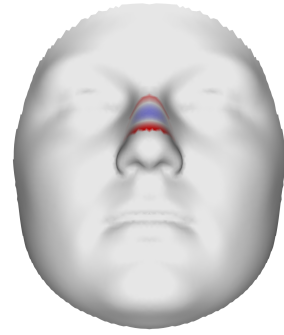


## Segment 19



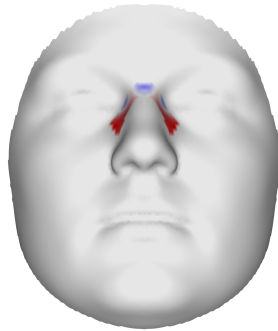
Endophenotypic trait in segment 19. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 19. Blue, inward depression; red, outward protrusion.

## Segment 23



Endophenotypic trait in segment 23. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 23. Blue, inward depression; red, outward protrusion.

## Segment 20



Endophenotypic trait in segment 20. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 20. Blue, inward depression; red, outward protrusion.

## Segment 24



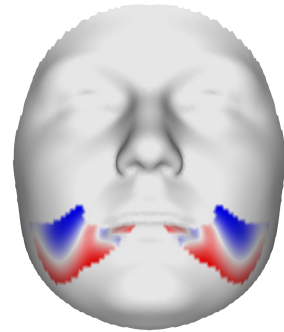
Endophenotypic trait in segment 24. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 24. Blue, inward depression; red, outward protrusion.

## Segment 22



Endophenotypic trait in segment 22. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 22. Blue, inward depression; red, outward protrusion.

## Segment 25



Endophenotypic trait in segment 25. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 25. Blue, inward depression; red, outward protrusion.

### Segment 26



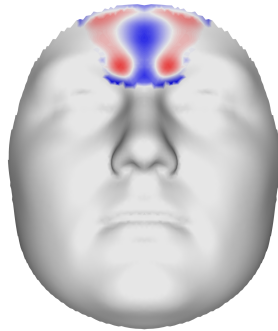
Endophenotypic trait in segment 26. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 26. Blue, inward depression; red, outward protrusion.

### Segment 30



Endophenotypic trait in segment 30. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 30. Blue, inward depression; red, outward protrusion.

### Segment 28



Endophenotypic trait in segment 28. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 28. Blue, inward depression; red, outward protrusion.

### Segment 31



Endophenotypic trait in segment 31. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 31. Blue, inward depression; red, outward protrusion.

### Segment 29



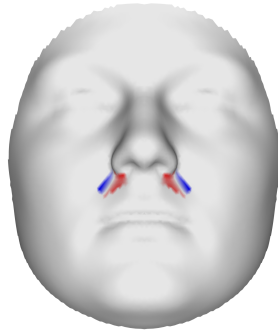
Endophenotypic trait in segment 29. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 29. Blue, inward depression; red, outward protrusion.

### Segment 33



Endophenotypic trait in segment 33. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 33. Blue, inward depression; red, outward protrusion.

### Segment 34



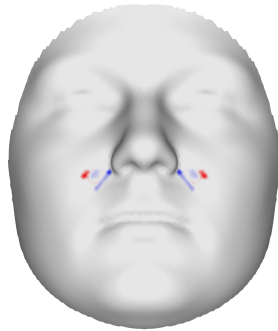
Endophenotypic trait in segment 34. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 34. Blue, inward depression; red, outward protrusion.

### Segment 37



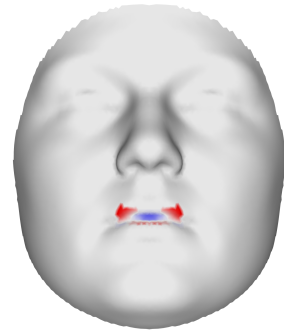
Endophenotypic trait in segment 37. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 37. Blue, inward depression; red, outward protrusion.

### Segment 35



Endophenotypic trait in segment 35. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 35. Blue, inward depression; red, outward protrusion.

### Segment 38



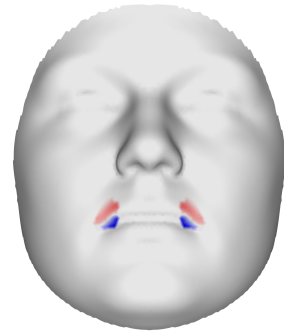
Endophenotypic trait in segment 38. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 38. Blue, inward depression; red, outward protrusion.

### Segment 36



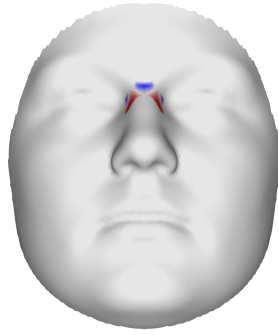
Endophenotypic trait in segment 36. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 36. Blue, inward depression; red, outward protrusion.

### Segment 39



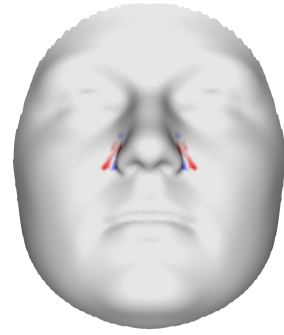
Endophenotypic trait in segment 39. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 39. Blue, inward depression; red, outward protrusion.

### Segment 40



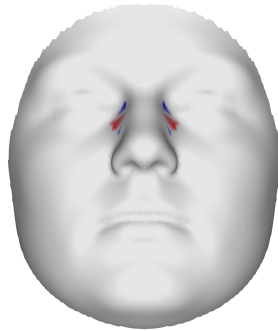
Endophenotypic trait in segment 40. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 40. Blue, inward depression; red, outward protrusion.

### Segment 43



Endophenotypic trait in segment 43. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 43. Blue, inward depression; red, outward protrusion.

### Segment 41



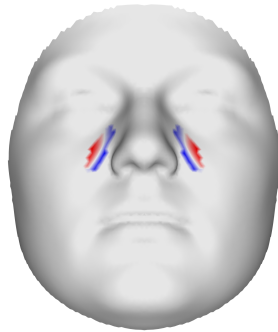
Endophenotypic trait in segment 41. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 41. Blue, inward depression; red, outward protrusion.

### Segment 44



Endophenotypic trait in segment 44. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 44. Blue, inward depression; red, outward protrusion.

### Segment 42



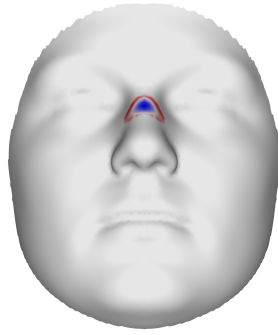
Endophenotypic trait in segment 42. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 42. Blue, inward depression; red, outward protrusion.

### Segment 45



Endophenotypic trait in segment 45. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 45. Blue, inward depression; red, outward protrusion.

### Segment 46



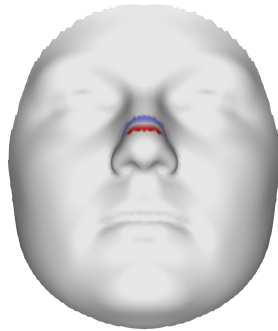
Endophenotypic trait in segment 46. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 46. Blue, inward depression; red, outward protrusion.

### Segment 49



Endophenotypic trait in segment 49. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 49. Blue, inward depression; red, outward protrusion.

### Segment 47



Endophenotypic trait in segment 47. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 47. Blue, inward depression; red, outward protrusion.

### Segment 50



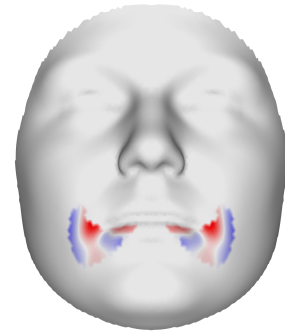
Endophenotypic trait in segment 50. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 50. Blue, inward depression; red, outward protrusion.

### Segment 48



Endophenotypic trait in segment 48. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 48. Blue, inward depression; red, outward protrusion.

### Segment 51



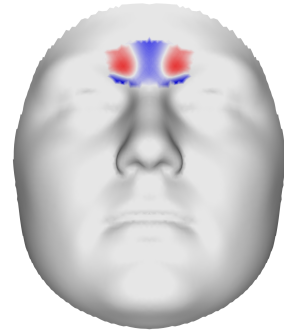
Endophenotypic trait in segment 51. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 51. Blue, inward depression; red, outward protrusion.

### Segment 52



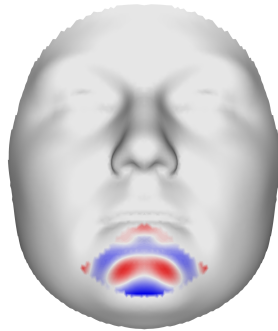
Endophenotypic trait in segment 52. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 52. Blue, inward depression; red, outward protrusion.

### Segment 56



Endophenotypic trait in segment 56. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 56. Blue, inward depression; red, outward protrusion.

### Segment 53



Endophenotypic trait in segment 53. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 53. Blue, inward depression; red, outward protrusion.

### Segment 57



Endophenotypic trait in segment 57. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 57. Blue, inward depression; red, outward protrusion.

### Segment 54



Endophenotypic trait in segment 54. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 54. Blue, inward depression; red, outward protrusion.

### Segment 58



Endophenotypic trait in segment 58. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 58. Blue, inward depression; red, outward protrusion.

## Segment 59



Endophenotypic trait in segment 59. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 59. Blue, inward depression; red, outward protrusion.

## Segment 62



Endophenotypic trait in segment 62. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 62. Blue, inward depression; red, outward protrusion.

## Segment 60



Endophenotypic trait in segment 60. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 60. Blue, inward depression; red, outward protrusion.

## Segment 63



Endophenotypic trait in segment 63. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 63. Blue, inward depression; red, outward protrusion.

## Segment 61



Endophenotypic trait in segment 61. The normal displacement (displacement in the direction locally normal to the facial surface) in each quasi-landmark going from the control to unaffected parent phenotype in segment 61. Blue, inward depression; red, outward protrusion.