

R-L48 Allele Frequencies

| Allele | Value | | | All | | UK&I | | NWE | | Sca | | CE | | NEE | | SEE | | SWE | |
|--------|-------|----|--|-----|------|------|------|-----|------|-----|------|----|------|-----|------|-----|------|-----|------|
| | | | | n | x | n | x | n | x | n | x | n | x | n | x | n | x | n | x |
| 393 | 12 | | | 7 | 2% | 2 | 2% | 0 | 0% | 0 | 0% | 1 | 6% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 13 | | | 317 | 95% | 97 | 97% | 26 | 96% | 11 | 100% | 14 | 82% | 13 | 100% | 8 | 100% | 3 | 100% |
| | 14 | | | 10 | 3% | 1 | 1% | 1 | 4% | 0 | 0% | 2 | 12% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | | 334 | 100% | 100 | 100% | 27 | 100% | 11 | 100% | 17 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 390 | 21 | | | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 22 | | | 18 | 5% | 4 | 4% | 2 | 7% | 0 | 0% | 0 | 0% | 1 | 8% | 0 | 0% | 0 | 0% |
| | 23 | | | 283 | 85% | 84 | 84% | 25 | 93% | 10 | 91% | 14 | 82% | 7 | 54% | 8 | 100% | 2 | 67% |
| | 24 | | | 29 | 9% | 11 | 11% | 0 | 0% | 1 | 9% | 2 | 12% | 5 | 38% | 0 | 0% | 0 | 0% |
| | 25 | | | 3 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 6% | 0 | 0% | 0 | 0% | 1 | 33% |
| | | | | 334 | 100% | 100 | 100% | 27 | 100% | 11 | 100% | 17 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 19 | 12 | | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 13 | | | 2 | 1% | 0 | 0% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | | | 312 | 93% | 91 | 91% | 26 | 96% | 11 | 100% | 17 | 100% | 11 | 85% | 8 | 100% | 3 | 100% |
| | 15 | | | 19 | 6% | 9 | 9% | 0 | 0% | 0 | 0% | 0 | 0% | 2 | 15% | 0 | 0% | 0 | 0% |
| | | | | 334 | 100% | 100 | 100% | 27 | 100% | 11 | 100% | 17 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 391 | 10 | | | 90 | 27% | 30 | 30% | 7 | 26% | 5 | 45% | 5 | 29% | 3 | 23% | 3 | 38% | 0 | 0% |
| | 11 | | | 227 | 68% | 63 | 63% | 20 | 74% | 6 | 55% | 12 | 71% | 10 | 77% | 5 | 63% | 2 | 67% |
| | 12 | | | 17 | 5% | 7 | 7% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 33% |
| | | | | 334 | 100% | 100 | 100% | 27 | 100% | 11 | 100% | 17 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 385 | 10 | 12 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 10 | 13 | | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 10 | 14 | | 5 | 1% | 3 | 3% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 10 | 15 | | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 11 | 11 | | 6 | 2% | 0 | 0% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 11 | 12 | | 7 | 2% | 4 | 4% | 0 | 0% | 0 | 0% | 2 | 12% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 11 | 13 | | 16 | 5% | 8 | 8% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 33% |
| | 11 | 14 | | 258 | 77% | 73 | 73% | 21 | 78% | 8 | 73% | 14 | 82% | 13 | 100% | 6 | 75% | 2 | 67% |
| | 11 | 15 | | 17 | 5% | 5 | 5% | 3 | 11% | 1 | 9% | 1 | 6% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 11 | 16 | | 4 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 2 | 25% | 0 | 0% |
| | 12 | 13 | | 4 | 1% | 2 | 2% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 12 | 14 | | 12 | 4% | 3 | 3% | 1 | 4% | 2 | 18% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 12 | 15 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 13 | 14 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | | 334 | 100% | 100 | 100% | 27 | 100% | 11 | 100% | 17 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 426 | 10 | | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 6% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 11 | | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 12 | | | 329 | 99% | 99 | 99% | 26 | 96% | 11 | 100% | 16 | 94% | 13 | 100% | 8 | 100% | 3 | 100% |
| | 13 | | | 3 | 1% | 1 | 1% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | | 334 | 0% | 100 | 100% | 27 | 100% | 11 | 100% | 17 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 388 | 10 | | | 2 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 12 | | | 329 | 99% | 99 | 99% | 26 | 96% | 11 | 100% | 17 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| | 13 | | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | | | 2 | 1% | 1 | 1% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | | 334 | 100% | 100 | 100% | 27 | 100% | 11 | 100% | 17 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 439 | 10 | | | 3 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 8% | 0 | 0% | 0 | 0% |
| | 11 | | | 90 | 27% | 28 | 28% | 8 | 30% | 2 | 18% | 3 | 18% | 8 | 62% | 1 | 13% | 1 | 33% |
| | 12 | | | 195 | 58% | 56 | 56% | 15 | 56% | 8 | 73% | 11 | 65% | 4 | 31% | 6 | 75% | 1 | 33% |
| | 13 | | | 42 | 13% | 13 | 13% | 4 | 15% | 1 | 9% | 2 | 12% | 0 | 0% | 1 | 13% | 1 | 33% |
| | 14 | | | 4 | 1% | 2 | 2% | 0 | 0% | 0 | 0% | 1 | 6% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | | 334 | 100% | 100 | 100% | 27 | 100% | 11 | 100% | 17 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 389 | 12 | 28 | | 11 | 3% | 4 | 4% | 0 | 0% | 0 | 0% | 1 | 6% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 12 | 29 | | 2 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 6% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 13 | 27 | | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 13 | 28 | | 39 | 12% | 13 | 13% | 2 | 7% | 0 | 0% | 1 | 6% | 5 | 38% | 2 | 25% | 0 | 0% |

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| Allele | Value | | All | | UK&I | | NWE | | Sca | | CE | | NEE | | SEE | | SWE | |
|------------|-----------|-----------|------------|------------|-----------|------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|----------|-------------|----------|-------------|
| | | | n | x | n | x | n | x | n | x | n | x | n | x | n | x | n | x |
| | 13 | 29 | 213 | 64% | 63 | 63% | 22 | 81% | 4 | 36% | 11 | 65% | 4 | 31% | 4 | 50% | 2 | 67% |
| | 13 | 30 | 31 | 9% | 10 | 10% | 1 | 4% | 4 | 36% | 3 | 18% | 0 | 0% | 1 | 13% | 0 | 0% |
| | 13 | 31 | 2 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | 29 | 3 | 1% | 1 | 1% | 1 | 4% | 0 | 0% | 0 | 0% | 1 | 8% | 0 | 0% | 0 | 0% |
| | 14 | 30 | 30 | 9% | 8 | 8% | 1 | 4% | 2 | 18% | 0 | 0% | 3 | 23% | 1 | 13% | 1 | 33% |
| | 14 | 31 | 2 | 1% | 0 | 0% | 0 | 0% | 1 | 9% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 334 | 100% | 100 | 100% | 27 | 100% | 11 | 100% | 17 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 392 | 12 | | 2 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 13 | | 318 | 95% | 95 | 95% | 24 | 89% | 10 | 91% | 16 | 94% | 13 | 100% | 6 | 75% | 3 | 100% |
| | 14 | | 13 | 4% | 4 | 4% | 3 | 11% | 1 | 9% | 1 | 6% | 0 | 0% | 1 | 13% | 0 | 0% |
| | 15 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 13% | 0 | 0% |
| | | | 334 | 100% | 100 | 100% | 27 | 100% | 11 | 100% | 17 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 458 | 15 | | 8 | 2% | 3 | 3% | 0 | 0% | 0 | 0% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 16 | | 70 | 22% | 25 | 26% | 9 | 36% | 1 | 9% | 1 | 7% | 1 | 8% | 2 | 25% | 1 | 33% |
| | 17 | | 161 | 50% | 44 | 45% | 10 | 40% | 5 | 45% | 10 | 67% | 8 | 62% | 5 | 63% | 1 | 33% |
| | 18 | | 56 | 17% | 12 | 12% | 6 | 24% | 3 | 27% | 3 | 20% | 3 | 23% | 1 | 13% | 0 | 0% |
| | 19 | | 19 | 6% | 10 | 10% | 0 | 0% | 1 | 9% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 33% |
| | 20 | | 8 | 2% | 3 | 3% | 0 | 0% | 1 | 9% | 0 | 0% | 1 | 8% | 0 | 0% | 0 | 0% |
| | 21 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 323 | 100% | 97 | 100% | 25 | 100% | 11 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 459 | 7 | 10 | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 8 | 9 | 1 | 0% | 0 | 0% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 8 | 10 | 2 | 1% | 0 | 0% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 9 | 9 | 37 | 11% | 11 | 11% | 4 | 16% | 1 | 9% | 3 | 20% | 2 | 15% | 0 | 0% | 0 | 0% |
| | 9 | 10 | 279 | 86% | 84 | 87% | 18 | 72% | 10 | 91% | 12 | 80% | 11 | 85% | 8 | 100% | 3 | 100% |
| | 10 | 10 | 3 | 1% | 1 | 1% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 323 | 100% | 97 | 100% | 25 | 100% | 11 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 455 | 10 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 11 | | 316 | 98% | 94 | 97% | 25 | 100% | 11 | 100% | 14 | 93% | 13 | 100% | 8 | 100% | 3 | 100% |
| | 12 | | 6 | 2% | 3 | 3% | 0 | 0% | 0 | 0% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 323 | 100% | 97 | 100% | 25 | 100% | 11 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 454 | 10 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 11 | | 318 | 98% | 96 | 99% | 24 | 96% | 11 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| | 12 | | 4 | 1% | 1 | 1% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 323 | 100% | 97 | 100% | 25 | 100% | 11 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 447 | 22 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 23 | | 14 | 4% | 7 | 7% | 1 | 4% | 1 | 9% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 24 | | 168 | 52% | 49 | 51% | 15 | 60% | 5 | 45% | 6 | 40% | 4 | 31% | 4 | 50% | 1 | 33% |
| | 25 | | 111 | 34% | 31 | 32% | 8 | 32% | 4 | 36% | 9 | 60% | 3 | 23% | 2 | 25% | 1 | 33% |
| | 26 | | 26 | 8% | 10 | 10% | 1 | 4% | 1 | 9% | 0 | 0% | 6 | 46% | 2 | 25% | 1 | 33% |
| | 27 | | 3 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 323 | 100% | 97 | 100% | 25 | 100% | 11 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 437 | 14 | | 36 | 11% | 12 | 12% | 0 | 0% | 1 | 9% | 1 | 7% | 2 | 15% | 2 | 25% | 0 | 0% |
| | 15 | | 275 | 85% | 82 | 85% | 23 | 96% | 10 | 91% | 13 | 87% | 11 | 85% | 6 | 75% | 3 | 100% |
| | 16 | | 11 | 3% | 3 | 3% | 1 | 4% | 0 | 0% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 322 | 100% | 97 | 100% | 24 | 100% | 11 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 448 | 0 | | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | | 2 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 17 | | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 18 | | 12 | 4% | 4 | 4% | 0 | 0% | 1 | 9% | 0 | 0% | 1 | 8% | 1 | 13% | 1 | 33% |
| | 19 | | 301 | 94% | 89 | 92% | 25 | 100% | 10 | 91% | 15 | 100% | 12 | 92% | 7 | 88% | 2 | 67% |
| | 20 | | 5 | 2% | 3 | 3% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 321 | 100% | 97 | 100% | 25 | 100% | 11 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 449 | 27 | | 6 | 2% | 2 | 2% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 33% |

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| Allele | Value | | | | All | | UK&I | | NWE | | Sca | | CE | | NEE | | SEE | | SWE | |
|---------|-------|----|----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| | | | | | n | x | n | x | n | x | n | x | n | x | n | x | n | x | n | x |
| | 28 | | | | 65 | 20% | 15 | 15% | 7 | 28% | 3 | 27% | 1 | 7% | 5 | 38% | 2 | 25% | 0 | 0% |
| | 29 | | | | 134 | 41% | 41 | 42% | 12 | 48% | 5 | 45% | 7 | 47% | 3 | 23% | 1 | 13% | 1 | 33% |
| | 30 | | | | 94 | 29% | 30 | 31% | 4 | 16% | 3 | 27% | 7 | 47% | 5 | 38% | 5 | 63% | 1 | 33% |
| | 31 | | | | 22 | 7% | 9 | 9% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 32 | | | | 2 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | | 323 | 100% | 97 | 100% | 25 | 100% | 11 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% | |
| 464 | 12 | 15 | 15 | 17 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 13 | 15 | 17 | 17 | 2 | 1% | 0 | 0% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 13 | 16 | 18 | 19 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | 14 | 15 | 15 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | 14 | 15 | 17 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | 14 | 16 | 17 | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | 14 | 16 | 18 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | 14 | 17 | 17 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | 14 | 17 | 18 | 2 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 2 | 15% | 0 | 0% | 0 | 0% |
| | 14 | 15 | 15 | 15 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 13% | 0 | 0% |
| | 14 | 15 | 16 | 17 | 4 | 1% | 0 | 0% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | 15 | 17 | 17 | 13 | 4% | 4 | 4% | 2 | 8% | 2 | 18% | 2 | 13% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | 15 | 17 | 18 | 10 | 3% | 3 | 3% | 0 | 0% | 1 | 9% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | 15 | 18 | 18 | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | 16 | 17 | 17 | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | 16 | 17 | 18 | 3 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | 16 | 18 | 18 | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | 15 | 15 | 15 | 5 | 2% | 1 | 1% | 0 | 0% | 0 | 0% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | 15 | 15 | 16 | 1 | 0% | 0 | 0% | 0 | 0% | 1 | 9% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | 15 | 15 | 17 | 6 | 2% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | 15 | 15 | 18 | 7 | 2% | 1 | 1% | 0 | 0% | 0 | 0% | 1 | 7% | 3 | 23% | 0 | 0% | 0 | 0% |
| | 15 | 15 | 16 | 16 | 10 | 3% | 2 | 2% | 3 | 12% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | 15 | 16 | 17 | 24 | 7% | 9 | 9% | 1 | 4% | 0 | 0% | 1 | 7% | 2 | 15% | 1 | 13% | 0 | 0% |
| | 15 | 15 | 16 | 18 | 11 | 3% | 0 | 0% | 2 | 8% | 0 | 0% | 1 | 7% | 1 | 8% | 0 | 0% | 0 | 0% |
| | 15 | 15 | 17 | 17 | 55 | 17% | 16 | 16% | 9 | 36% | 1 | 9% | 3 | 20% | 0 | 0% | 2 | 25% | 0 | 0% |
| | 15 | 15 | 17 | 18 | 39 | 12% | 14 | 14% | 1 | 4% | 4 | 36% | 1 | 7% | 2 | 15% | 2 | 25% | 1 | 33% |
| | 15 | 15 | 17 | 19 | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | 15 | 17 | 21 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | 15 | 18 | 18 | 5 | 2% | 1 | 1% | 0 | 0% | 1 | 9% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | 16 | 16 | 16 | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | 16 | 16 | 17 | 7 | 2% | 2 | 2% | 0 | 0% | 0 | 0% | 2 | 13% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | 16 | 16 | 18 | 11 | 3% | 3 | 3% | 1 | 4% | 1 | 9% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| 15 | 16 | 17 | 17 | 17 | 5% | 5 | 5% | 2 | 8% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 13% | 0 | 0% | |
| 15 | 16 | 17 | 18 | 48 | 15% | 16 | 16% | 2 | 8% | 0 | 0% | 1 | 7% | 3 | 23% | 0 | 0% | 0 | 0% | |
| 15 | 16 | 17 | 19 | 10 | 3% | 2 | 2% | 0 | 0% | 0 | 0% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% | |
| 15 | 16 | 18 | 18 | 4 | 1% | 3 | 3% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 13% | 0 | 0% | |
| 15 | 17 | 17 | 18 | 5 | 2% | 3 | 3% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 33% | |
| 16 | 16 | 17 | 17 | 2 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| 16 | 16 | 17 | 18 | 5 | 2% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| 16 | 16 | 17 | 19 | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| 16 | 16 | 18 | 18 | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| 17 | 17 | 18 | 18 | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| | | | | 323 | 100% | 97 | 100% | 25 | 100% | 11 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% | |
| 460 | 10 | | | | 97 | 30% | 26 | 28% | 12 | 48% | 3 | 30% | 7 | 47% | 3 | 23% | 4 | 50% | 1 | 33% |
| | 11 | | | | 214 | 67% | 65 | 69% | 12 | 48% | 7 | 70% | 8 | 53% | 10 | 77% | 4 | 50% | 2 | 67% |
| | 12 | | | | 7 | 2% | 2 | 2% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 13 | | | | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | | 319 | 100% | 94 | 100% | 25 | 100% | 10 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% | |
| GATA H4 | 9 | | | | 3 | 1% | 0 | 0% | 0 | 0% | 1 | 10% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |

R-L48 Allele Frequencies

| Allele | Value | | All | | UK&I | | NWE | | Sca | | CE | | NEE | | SEE | | SWE | |
|--------|-------|----|-----|------|------|------|-----|------|-----|------|----|------|-----|------|-----|------|-----|------|
| | | | n | x | n | x | n | x | n | x | n | x | n | x | n | x | n | x |
| | 10 | | 137 | 43% | 36 | 38% | 13 | 52% | 6 | 60% | 3 | 20% | 4 | 31% | 2 | 25% | 1 | 33% |
| | 11 | | 165 | 52% | 54 | 57% | 7 | 28% | 2 | 20% | 11 | 73% | 9 | 69% | 6 | 75% | 2 | 67% |
| | 12 | | 12 | 4% | 3 | 3% | 5 | 20% | 1 | 10% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 13 | | 2 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 319 | 100% | 94 | 100% | 25 | 100% | 10 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| YCA II | 18 | 23 | 7 | 2% | 2 | 2% | 0 | 0% | 0 | 0% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 19 | 19 | 2 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 8% | 0 | 0% | 0 | 0% |
| | 19 | 21 | 8 | 3% | 2 | 2% | 1 | 4% | 0 | 0% | 1 | 7% | 0 | 0% | 1 | 13% | 0 | 0% |
| | 19 | 22 | 12 | 4% | 6 | 6% | 0 | 0% | 0 | 0% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 19 | 23 | 276 | 87% | 78 | 83% | 23 | 92% | 10 | 100% | 11 | 73% | 12 | 92% | 7 | 88% | 3 | 100% |
| | 19 | 24 | 4 | 1% | 3 | 3% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 20 | 23 | 2 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 21 | 23 | 6 | 2% | 2 | 2% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 21 | 24 | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 23 | 23 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 319 | 100% | 94 | 100% | 25 | 100% | 10 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 456 | 14 | | 3 | 1% | 1 | 1% | 0 | 0% | 1 | 10% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | | 84 | 26% | 31 | 33% | 7 | 28% | 1 | 10% | 8 | 53% | 3 | 23% | 2 | 25% | 0 | 0% |
| | 16 | | 112 | 35% | 31 | 33% | 9 | 36% | 4 | 40% | 5 | 33% | 8 | 62% | 4 | 50% | 0 | 0% |
| | 17 | | 111 | 35% | 30 | 32% | 9 | 36% | 4 | 40% | 2 | 13% | 1 | 8% | 1 | 13% | 3 | 100% |
| | 18 | | 8 | 3% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 8% | 0 | 0% | 0 | 0% |
| | 19 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 13% | 0 | 0% |
| | | | 319 | 100% | 94 | 100% | 25 | 100% | 10 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 607 | 13 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | | 34 | 11% | 7 | 7% | 3 | 13% | 2 | 20% | 2 | 13% | 0 | 0% | 2 | 25% | 1 | 33% |
| | 15 | | 257 | 81% | 75 | 80% | 20 | 83% | 6 | 60% | 12 | 80% | 13 | 100% | 6 | 75% | 2 | 67% |
| | 16 | | 25 | 8% | 12 | 13% | 1 | 4% | 1 | 10% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 17 | | 1 | 0% | 0 | 0% | 0 | 0% | 1 | 10% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 318 | 100% | 94 | 100% | 24 | 100% | 10 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 576 | 15 | | 5 | 2% | 2 | 2% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 16 | | 26 | 8% | 15 | 16% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 2 | 25% | 0 | 0% |
| | 17 | | 148 | 47% | 43 | 46% | 12 | 50% | 5 | 50% | 8 | 53% | 5 | 38% | 3 | 38% | 2 | 67% |
| | 18 | | 100 | 31% | 22 | 23% | 6 | 25% | 3 | 30% | 5 | 33% | 7 | 54% | 1 | 13% | 1 | 33% |
| | 19 | | 29 | 9% | 10 | 11% | 3 | 13% | 2 | 20% | 1 | 7% | 1 | 8% | 2 | 25% | 0 | 0% |
| | 20 | | 10 | 3% | 2 | 2% | 3 | 13% | 0 | 0% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 318 | 100% | 94 | 100% | 24 | 100% | 10 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 570 | 14 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | | 2 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 16 | | 32 | 10% | 10 | 11% | 1 | 4% | 1 | 10% | 3 | 20% | 2 | 15% | 2 | 25% | 0 | 0% |
| | 17 | | 171 | 54% | 57 | 61% | 12 | 50% | 6 | 60% | 5 | 33% | 2 | 15% | 2 | 25% | 2 | 67% |
| | 18 | | 73 | 23% | 21 | 22% | 5 | 21% | 3 | 30% | 4 | 27% | 3 | 23% | 3 | 38% | 1 | 33% |
| | 19 | | 37 | 12% | 5 | 5% | 6 | 25% | 0 | 0% | 3 | 20% | 6 | 46% | 1 | 13% | 0 | 0% |
| | 20 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 21 | | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 318 | 100% | 94 | 100% | 24 | 100% | 10 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| CDY | 32 | 37 | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 33 | 38 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 34 | 35 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 34 | 36 | 2 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 34 | 37 | 4 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 34 | 38 | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 34 | 39 | 1 | 0% | 0 | 0% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 34 | 40 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 35 | 35 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |

R-L48 Allele Frequencies

| Allele | Value | | All | | UK&I | | NWE | | Sca | | CE | | NEE | | SEE | | SWE | |
|--------|-------|----|-----|------|------|------|-----|------|-----|------|----|------|-----|------|-----|------|-----|------|
| | | | n | x | n | x | n | x | n | x | n | x | n | x | n | x | n | x |
| | 35 | 36 | 7 | 2% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 2 | 15% | 0 | 0% | 0 | 0% |
| | 35 | 37 | 7 | 2% | 3 | 3% | 0 | 0% | 0 | 0% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 35 | 38 | 10 | 3% | 2 | 2% | 0 | 0% | 1 | 10% | 1 | 7% | 2 | 15% | 0 | 0% | 0 | 0% |
| | 35 | 39 | 4 | 1% | 0 | 0% | 1 | 4% | 0 | 0% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 35 | 40 | 3 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 35 | 41 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 36 | 36 | 6 | 2% | 1 | 1% | 1 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 36 | 37 | 27 | 8% | 7 | 7% | 4 | 17% | 1 | 10% | 1 | 7% | 3 | 23% | 0 | 0% | 1 | 33% |
| | 36 | 38 | 30 | 9% | 9 | 10% | 3 | 13% | 2 | 20% | 1 | 7% | 1 | 8% | 2 | 25% | 1 | 33% |
| | 36 | 39 | 24 | 8% | 5 | 5% | 2 | 8% | 1 | 10% | 1 | 7% | 0 | 0% | 2 | 25% | 0 | 0% |
| | 36 | 40 | 8 | 3% | 3 | 3% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 13% | 0 | 0% |
| | 36 | 41 | 2 | 1% | 2 | 2% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 36 | 42 | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 37 | 37 | 21 | 7% | 6 | 6% | 2 | 8% | 1 | 10% | 0 | 0% | 1 | 8% | 0 | 0% | 0 | 0% |
| | 37 | 38 | 34 | 11% | 13 | 14% | 3 | 13% | 1 | 10% | 3 | 20% | 1 | 8% | 0 | 0% | 0 | 0% |
| | 37 | 39 | 36 | 11% | 9 | 10% | 2 | 8% | 2 | 20% | 0 | 0% | 1 | 8% | 0 | 0% | 0 | 0% |
| | 37 | 40 | 14 | 4% | 4 | 4% | 1 | 4% | 0 | 0% | 1 | 7% | 1 | 8% | 0 | 0% | 0 | 0% |
| | 37 | 41 | 2 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 38 | 38 | 20 | 6% | 7 | 7% | 3 | 13% | 0 | 0% | 1 | 7% | 0 | 0% | 1 | 13% | 0 | 0% |
| | 38 | 39 | 17 | 5% | 4 | 4% | 1 | 4% | 0 | 0% | 1 | 7% | 1 | 8% | 0 | 0% | 1 | 33% |
| 38 | 40 | 11 | 3% | 4 | 4% | 0 | 0% | 0 | 0% | 1 | 7% | 0 | 0% | 1 | 13% | 0 | 0% | |
| 38 | 41 | 4 | 1% | 2 | 2% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| 39 | 39 | 4 | 1% | 2 | 2% | 0 | 0% | 0 | 0% | 1 | 7% | 0 | 0% | 0 | 0% | 0 | 0% | |
| 39 | 40 | 10 | 3% | 3 | 3% | 0 | 0% | 1 | 10% | 1 | 7% | 0 | 0% | 1 | 13% | 0 | 0% | |
| 39 | 41 | 2 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| | | | 318 | 100% | 94 | 100% | 24 | 100% | 10 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 442 | 11 | | 30 | 9% | 8 | 9% | 2 | 8% | 0 | 0% | 3 | 20% | 0 | 0% | 1 | 13% | 0 | 0% |
| | 12 | | 200 | 63% | 54 | 57% | 16 | 67% | 7 | 70% | 11 | 73% | 11 | 85% | 7 | 88% | 2 | 67% |
| | 13 | | 69 | 22% | 23 | 24% | 6 | 25% | 1 | 10% | 1 | 7% | 2 | 15% | 0 | 0% | 1 | 33% |
| | 14 | | 18 | 6% | 8 | 9% | 0 | 0% | 2 | 20% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 318 | 100% | 94 | 100% | 24 | 100% | 10 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 438 | 11 | | 9 | 3% | 3 | 3% | 0 | 0% | 0 | 0% | 0 | 0% | 5 | 38% | 0 | 0% | 0 | 0% |
| | 12 | | 306 | 96% | 91 | 97% | 24 | 100% | 9 | 90% | 15 | 100% | 8 | 62% | 8 | 100% | 3 | 100% |
| | 13 | | 3 | 1% | 0 | 0% | 0 | 0% | 1 | 10% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 318 | 100% | 94 | 100% | 24 | 100% | 10 | 100% | 15 | 100% | 13 | 100% | 8 | 100% | 3 | 100% |
| 531 | 10 | | 3 | 1% | 2 | 2% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 11 | | 260 | 97% | 80 | 94% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| | 12 | | 6 | 2% | 3 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| 578 | 9 | | 267 | 99% | 85 | 100% | 20 | 95% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| | 10 | | 2 | 1% | 0 | 0% | 1 | 5% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| 395S1 | 13 | 16 | 1 | 0% | 0 | 0% | 1 | 5% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | 16 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 9% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | 15 | 5 | 2% | 3 | 4% | 1 | 5% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | 16 | 246 | 91% | 75 | 88% | 18 | 86% | 6 | 100% | 9 | 82% | 10 | 91% | 6 | 100% | 2 | 100% |
| | 15 | 17 | 2 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 16 | 16 | 11 | 4% | 5 | 6% | 1 | 5% | 0 | 0% | 1 | 9% | 1 | 9% | 0 | 0% | 0 | 0% |
| | 16 | 17 | 3 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| 590 | 7 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 8 | | 267 | 99% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| | 9 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |

R-L48 Allele Frequencies

| Allele | Value | | All | | UK&I | | NWE | | Sca | | CE | | NEE | | SEE | | SWE | |
|--------|-------|----|-----|------|------|------|-----|------|-----|------|----|------|-----|------|-----|------|-----|------|
| | | | n | x | n | x | n | x | n | x | n | x | n | x | n | x | n | x |
| | | | 269 | 0% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| 537 | 10 | | 257 | 96% | 82 | 96% | 20 | 95% | 5 | 83% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| | 11 | | 10 | 4% | 3 | 4% | 1 | 5% | 1 | 17% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 12 | | 2 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| 641 | 10 | | 267 | 99% | 83 | 98% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| | 11 | | 2 | 1% | 2 | 2% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| 472 | 8 | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| | | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| 406S1 | 0 | | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 8 | | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 9 | | 9 | 3% | 2 | 2% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 9% | 0 | 0% | 1 | 50% |
| | 10 | | 242 | 90% | 75 | 88% | 21 | 100% | 5 | 83% | 10 | 91% | 9 | 82% | 5 | 83% | 1 | 50% |
| | 11 | | 15 | 6% | 7 | 8% | 0 | 0% | 1 | 17% | 1 | 9% | 0 | 0% | 1 | 17% | 0 | 0% |
| 12 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 9% | 0 | 0% | 0 | 0% | |
| | | | 268 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| 511 | 9 | | 6 | 2% | 2 | 2% | 2 | 10% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 17% | 0 | 0% |
| | 10 | | 243 | 90% | 72 | 85% | 18 | 86% | 5 | 83% | 11 | 100% | 11 | 100% | 5 | 83% | 2 | 100% |
| | 11 | | 20 | 7% | 11 | 13% | 1 | 5% | 1 | 17% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| 425 | 0 | | 60 | 22% | 17 | 20% | 8 | 38% | 0 | 0% | 5 | 45% | 1 | 10% | 3 | 50% | 0 | 0% |
| | 8 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 11 | | 1 | 0% | 0 | 0% | 1 | 5% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 12 | | 204 | 76% | 67 | 79% | 12 | 57% | 5 | 83% | 6 | 55% | 9 | 90% | 3 | 50% | 2 | 100% |
| | 13 | | 2 | 1% | 1 | 1% | 0 | 0% | 1 | 17% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 268 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| 413 | 18 | 23 | 1 | 0% | 0 | 0% | 0 | 0% | 1 | 17% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 21 | 21 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 21 | 22 | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 21 | 23 | 18 | 7% | 4 | 5% | 3 | 14% | 1 | 17% | 0 | 0% | 0 | 0% | 2 | 33% | 0 | 0% |
| | 21 | 24 | 2 | 1% | 0 | 0% | 0 | 0% | 1 | 17% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 22 | 22 | 3 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 22 | 23 | 24 | 9% | 6 | 7% | 3 | 14% | 0 | 0% | 2 | 18% | 1 | 10% | 1 | 17% | 0 | 0% |
| | 22 | 25 | 2 | 1% | 2 | 2% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 23 | 23 | 190 | 71% | 61 | 72% | 12 | 57% | 3 | 50% | 9 | 82% | 5 | 50% | 3 | 50% | 2 | 100% |
| | 23 | 24 | 19 | 7% | 11 | 13% | 1 | 5% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 23 | 25 | 5 | 2% | 0 | 0% | 2 | 10% | 0 | 0% | 0 | 0% | 2 | 20% | 0 | 0% | 0 | 0% |
| | 25 | 25 | 2 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 2 | 20% | 0 | 0% | 0 | 0% |
| | | | 268 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| 557 | 14 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | | 21 | 8% | 7 | 8% | 2 | 10% | 0 | 0% | 1 | 9% | 0 | 0% | 2 | 33% | 0 | 0% |
| | 16 | | 210 | 78% | 68 | 80% | 17 | 81% | 5 | 83% | 9 | 82% | 10 | 100% | 3 | 50% | 2 | 100% |
| | 17 | | 31 | 12% | 7 | 8% | 2 | 10% | 1 | 17% | 1 | 9% | 0 | 0% | 1 | 17% | 0 | 0% |
| | 18 | | 5 | 2% | 3 | 4% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 268 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| 594 | 10 | | 264 | 99% | 83 | 98% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| | 11 | | 4 | 1% | 2 | 2% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 268 | 99% | 83 | 98% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| 436 | 12 | | 266 | 99% | 84 | 99% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| | 13 | | 2 | 0% | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | 268 | 99% | 84 | 99% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| 490 | 10 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |

R-L48 Allele Frequencies

| Allele | Value | | | All | | UK&I | | NWE | | Sca | | CE | | NEE | | SEE | | SWE | |
|--------|-------|--|---|-----|------|------|------|-----|------|-----|------|----|------|-----|------|-----|------|-----|------|
| | | | | n | x | n | x | n | x | n | x | n | x | n | x | n | x | n | x |
| | 12 | | | 263 | 98% | 84 | 99% | 19 | 90% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| | 13 | | | 4 | 1% | 1 | 1% | 2 | 10% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | | 268 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| 534 | 13 | | | 2 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 14 | | | 9 | 3% | 3 | 4% | 1 | 5% | 0 | 0% | 0 | 0% | 1 | 10% | 1 | 17% | 1 | 50% |
| | 15 | | | 128 | 48% | 36 | 42% | 9 | 43% | 2 | 33% | 4 | 36% | 4 | 40% | 0 | 0% | 1 | 50% |
| | 16 | | | 82 | 31% | 33 | 39% | 7 | 33% | 2 | 33% | 4 | 36% | 3 | 30% | 4 | 67% | 0 | 0% |
| | 17 | | | 32 | 12% | 9 | 11% | 2 | 10% | 2 | 33% | 3 | 27% | 2 | 20% | 1 | 17% | 0 | 0% |
| | 18 | | | 10 | 4% | 2 | 2% | 2 | 10% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 19 | | | 5 | 2% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | | 268 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| 450 | 8 | | | 265 | 99% | 83 | 98% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| | 9 | | | 3 | 1% | 2 | 2% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | | 268 | 99% | 83 | 98% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| 444 | 11 | | | 11 | 4% | 2 | 2% | 1 | 5% | 1 | 17% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 12 | | | 210 | 78% | 70 | 82% | 15 | 71% | 4 | 67% | 9 | 82% | 8 | 80% | 3 | 50% | 1 | 50% |
| | 13 | | | 43 | 16% | 12 | 14% | 4 | 19% | 1 | 17% | 2 | 18% | 1 | 10% | 3 | 50% | 1 | 50% |
| | 14 | | | 3 | 1% | 1 | 1% | 1 | 5% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 10% | 0 | 0% | 0 | 0% |
| | | | | 268 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| 481 | 19 | | | 2 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 20 | | | 3 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 9% | 0 | 0% | 2 | 33% | 0 | 0% |
| | 21 | | | 22 | 8% | 7 | 8% | 5 | 24% | 0 | 0% | 2 | 18% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 22 | | | 172 | 64% | 57 | 67% | 12 | 57% | 6 | 100% | 5 | 45% | 4 | 40% | 3 | 50% | 1 | 50% |
| | 23 | | | 52 | 19% | 15 | 18% | 3 | 14% | 0 | 0% | 1 | 9% | 3 | 30% | 1 | 17% | 1 | 50% |
| | 24 | | | 16 | 6% | 4 | 5% | 1 | 5% | 0 | 0% | 2 | 18% | 3 | 30% | 0 | 0% | 0 | 0% |
| | 25 | | | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | | 268 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| 520 | 19 | | | 10 | 4% | 5 | 6% | 0 | 0% | 0 | 0% | 1 | 9% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 20 | | | 230 | 86% | 73 | 86% | 18 | 86% | 6 | 100% | 8 | 73% | 6 | 60% | 6 | 100% | 2 | 100% |
| | 21 | | | 28 | 10% | 7 | 8% | 3 | 14% | 0 | 0% | 2 | 18% | 4 | 40% | 0 | 0% | 0 | 0% |
| | | | | 268 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| 446 | 11 | | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 12 | | | 20 | 7% | 5 | 6% | 4 | 19% | 0 | 0% | 1 | 9% | 0 | 0% | 1 | 17% | 1 | 50% |
| | 13 | | | 215 | 80% | 72 | 85% | 14 | 67% | 6 | 100% | 7 | 64% | 10 | 100% | 4 | 67% | 1 | 50% |
| | 14 | | | 29 | 11% | 7 | 8% | 3 | 14% | 0 | 0% | 3 | 27% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 15 | | | 3 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 1 | 17% | 0 | 0% |
| | | | | 268 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 10 | 100% | 6 | 100% | 2 | 100% |
| 617 | 11 | | | 3 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 12 | | | 263 | 98% | 82 | 96% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| | 13 | | | 3 | 1% | 2 | 2% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| 568 | 10 | | | 9 | 3% | 4 | 5% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 11 | | | 258 | 96% | 80 | 94% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| | 12 | | | 2 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | | | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| 487 | 12 | | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% |
| | 13 | | | 253 | 94% | 81 | 95% | 21 | 100% | 4 | 67% | 10 | 91% | 10 | 91% | 6 | 100% | 2 | 100% |
| | 14 | | | 14 | 5% | 4 | 5% | 0 | 0% | 2 | 33% | 1 | 9% | 1 | 9% | 0 | 0% | 0 | 0% |
| 15 | | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| | | | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% |
| 572 | 10 | | | 17 | 6% | 6 | 7% | 1 | 5% | 0 | 0% | 0 | 0% | 1 | 9% | 0 | 0% | 0 | 0% |
| | 11 | | | 247 | 92% | 79 | 93% | 18 | 86% | 6 | 100% | 11 | 100% | 8 | 73% | 6 | 100% | 2 | 100% |
| | 12 | | | 5 | 2% | 0 | 0% | 2 | 10% | 0 | 0% | 0 | 0% | 2 | 18% | 0 | 0% | 0 | 0% |

R-L48 Allele Frequencies

| Allele | Value | | | All | | UK&I | | NWE | | Sca | | CE | | NEE | | SEE | | SWE | |
|--------|-------|--|-----|------|----|------|----|------|---|------|----|------|----|------|---|------|---|------|---|
| | | | | n | x | n | x | n | x | n | x | n | x | n | x | n | x | n | x |
| | | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% | |
| 640 | 9 | | 1 | 0% | 0 | 0% | 0 | 0% | 1 | 17% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| | 11 | | 263 | 98% | 84 | 99% | 21 | 100% | 5 | 83% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% | |
| | 12 | | 5 | 2% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| | | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% | |
| 492 | 10 | | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| | 12 | | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| | 13 | | 255 | 95% | 78 | 92% | 21 | 100% | 6 | 100% | 10 | 91% | 11 | 100% | 6 | 100% | 2 | 100% | |
| | 14 | | 11 | 4% | 5 | 6% | 0 | 0% | 0 | 0% | 1 | 9% | 0 | 0% | 0 | 0% | 0 | 0% | |
| | 15 | | 1 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| | | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% | |
| 565 | 10 | | 3 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| | 11 | | 15 | 6% | 4 | 5% | 1 | 5% | 0 | 0% | 2 | 18% | 0 | 0% | 0 | 0% | 0 | 0% | |
| | 12 | | 246 | 91% | 79 | 93% | 20 | 95% | 6 | 100% | 8 | 73% | 11 | 100% | 6 | 100% | 2 | 100% | |
| | 13 | | 4 | 1% | 1 | 1% | 0 | 0% | 0 | 0% | 1 | 9% | 0 | 0% | 0 | 0% | 0 | 0% | |
| | 14 | | 1 | 0% | 1 | 1% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | 0 | 0% | |
| | | | 269 | 100% | 85 | 100% | 21 | 100% | 6 | 100% | 11 | 100% | 11 | 100% | 6 | 100% | 2 | 100% | |