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| **Supplement table 1. The list of strains with log2 transferred expression value of Myo7a in retina.** |
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| **Index** | **Strain** | **Expression Value** |  **SE**  | **N** | **Allele at *Myo7a* locus** |
| 1 | B6D2F1 | 9.073 | 0.04 | 4 | H |
| 2 | C57BL/6J | 9.221 | 0.022 | 9 | B |
| 3 | DBA/2J | 7.92 | 0.093 | 4 | D |
| 4 | BXD1 | 9.279 | 0.083 | 4 | B |
| 5 | BXD2 | 9.207 | 0.029 | 4 | B |
| 6 | BXD5 | 7.812 | 0.117 | 4 | D |
| 7 | BXD6 | 9.63 | 0.057 | 4 | B |
| 8 | BXD8 | 9.3 | 0.082 | 4 | B |
| 9 | BXD9 | 7.746 | 0.11 | 4 | D |
| 10 | BXD11 | 9.142 | 0.082 | 4 | B |
| 11 | BXD12 | 7.799 | 0.223 | 2 | D |
| 12 | BXD13 | 8.091 | 0.11 | 4 | D |
| 13 | BXD14 | 7.697 | 0.158 | 4 | D |
| 14 | BXD15 | 7.786 | 0.11 | 4 | D |
| 15 | BXD16 | 9.092 | 0.057 | 4 | B |
| 16 | BXD18 | 7.937 | 0.041 | 4 | D |
| 17 | BXD19 | 9.364 | 0.071 | 4 | B |
| 18 | BXD20 | 9.402 | 0.045 | 4 | B |
| 19 | BXD21 | 9.143 | 0.046 | 4 | B |
| 20 | BXD22 | 9.448 | 0.055 | 4 | B |
| 21 | BXD27 | 9.162 | 0.044 | 4 | B |
| 22 | BXD28 | 9.14 | 0.044 | 4 | D |
| 23 | BXD29 | 9.32 | 0.133 | 4 | B |
| 24 | BXD31 | 7.9 | 0.071 | 4 | D |
| 25 | BXD33 | 8.972 | 0.046 | 4 | B |
| 26 | BXD34 | 7.773 | 0.193 | 4 | D |
| 27 | BXD36 | 7.907 | 0.101 | 4 | B |
| 28 | BXD38 | 9.191 | 0.092 | 4 | B |
| 29 | BXD39 | 9.473 | 0.062 | 4 | B |
| 30 | BXD40 | 8.95 | 0.026 | 4 | B |
| 31 | BXD42 | 7.727 | 0.036 | 4 | D |
| 32 | BXD43 | 8.979 | 0.024 | 4 | B |
| 33 | BXD48 | 9.335 | 0.052 | 4 | B |
| 34 | BXD48a | 9.476 | 0.066 | 4 | B |
| 35 | BXD50 | 7.887 | 0.084 | 4 | D |
| 36 | BXD51 | 7.759 | 0.079 | 4 | D |
| 37 | BXD56 | 7.938 | 0.039 | 4 | H |
| 38 | BXD60 | 7.936 | 0.019 | 4 | D |
| 39 | BXD63 | 9.486 | 0.024 | 4 | B |
| 40 | BXD65 | 9.287 | 0.086 | 4 | B |
| 41 | BXD65b | 9.205 | 0.042 | 4 | B |
| 42 | BXD67 | 7.848 | 0.05 | 5 | D |
| 43 | BXD69 | 9.344 | 0.022 | 4 | H |
| 44 | BXD71 | 8.842 | 0.043 | 4 | B |
| 45 | BXD73 | 9.056 | 0.051 | 3 | B |
| 46 | BXD75 | 8.946 | 0.302 | 4 | B |
| 47 | BXD84 | 7.694 | 0.016 | 4 | B |
| 48 | BXD85 | 9.051 | 0.02 | 4 | B |
| 49 | BXD86 | 8.178 | 0.455 | 4 | D |
| 50 | BXD87 | 7.818 | 0.08 | 3 | D |
| 51 | BXD90 | 9.105 | 0.081 | 4 | B |
| 52 | BXD99 | 7.79 | 0.081 | 4 | D |
| 53 | BXD100 | 9.015 | 0.487 | 4 | B |
| 54 | BXD101 | 9.19 | 0.038 | 4 | B |
| 55 | BXD102 | 9.277 | 0.041 | 4 | B |