

LMO2

Genus

Human

Mouse

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
|---------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Human | M | S | S | A | I | E | R | K | S | L | D | P | S | E | E | P | V | D | E | V | L | Q | I | P | P | S | L | L | T |
| Mouse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monkey | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Guinea Pig | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rabbit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rat | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cat | | | | | | | | M | L | G | L | L | | R | | | | | | | | | | | | | | | |
| Dog | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cow | | | | | | | | | | | | | | | | | | | | | | | | M | | | | | |
| Horse | | | | | | | | | | | | L | | R | | | | | | | | | | | | | | | |
| Bird (genus) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turkey | | | | | | | | | | | | | | R | | | | | | | | | | | | | | | |
| Frog | | | | | | | | | | | | | T | D | | | | | | | | | | | | | | | |
| Zebrafish | A | | T | | | | | T | | E | A | N | | | | | | | | | | | | | M | | | | |
| Ricefish | V | | T | | | | | T | | E | A | | | | | | | | | | | | | | M | | | | |
| Japanese Pufferfish | A | | T | | | | | T | | E | T | N | | | | | | | | | | | | | M | | | | |
| Pufferfish | A | | T | | | | | T | | E | T | | | | | | | | | | | | | | M | | | | |

KEY



Amino acid



No amino acid



Different amino acid



Conserved amino acid



Amino acids involved in Zn binding

Conserved aa K, R

Conserved aa F, Y, W

Conserved aa D, E

Conserved aa A, I, L, V

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 |
| D | I | V | C | E | Q | D | I | Y | E | W | T | K | I | N | G | M | I | | |
| | | | | | | | | | | | | | | | | I | | | |

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