

<i>D. labrax</i> β-defensin1	100%
<i>D. labrax</i> β-defensin2	46% 100%
<i>S. aurata</i> β-defensin	97% 46% 100%
<i>S. aurata</i> β-defensin-like2	47% 99% 47% 100%
<i>L. calcarifer</i> β-defensin-like1	97% 46% 100% 47% 100%
<i>L. calcarifer</i> β-defensin-like2	46% 99% 46% 98% 46% 100%
<i>E. coioides</i> β-defensin	46% 98% 46% 97% 46% 98% 100%
<i>O. niloticus</i> β-defensin1	92% 44% 94% 46% 94% 44% 44% 100%
<i>A. regius</i> β-defensin	44% 98% 44% 97% 44% 98% 98% 43% 100%
<i>L. crocea</i> β-defensin-like1	97% 46% 98% 47% 98% 46% 46% 93% 44% 100%
<i>L. crocea</i> β-defensin-like2	48% 92% 48% 91% 48% 92% 92% 47% 92% 48% 100%
<i>D. rerio</i> β-defensin-like1	80% 41% 80% 41% 80% 41% 41% 78% 40% 79% 43% 100%
<i>D. rerio</i> β-defensin-like2	39% 69% 39% 68% 39% 69% 70% 40% 70% 39% 69% 39% 100%
<i>D. rerio</i> β-defensin-like3	41% 61% 41% 62% 41% 61% 60% 40% 60% 37% 54% 100%
<i>G. morhua</i> β-defensin	83% 43% 87% 44% 87% 43% 43% 81% 42% 84% 46% 76% 40% 41% 100%
<i>S. salar</i> β-defensin1a	87% 46% 89% 47% 89% 46% 46% 83% 44% 87% 48% 76% 38% 40% 83% 100%
<i>S. salar</i> β-defensin2	49% 74% 49% 76% 49% 74% 73% 49% 73% 48% 74% 43% 61% 74% 47% 49% 100%
<i>S. salar</i> β-defensin3	41% 47% 41% 47% 41% 47% 47% 41% 46% 41% 46% 41% 39% 37% 40% 42% 47% 100%
<i>S. salar</i> β-defensin4	57% 48% 57% 47% 57% 48% 48% 56% 48% 58% 47% 56% 42% 33% 57% 53% 44% 43% 100%
<i>S. salar</i> β-defensin5a	41% 84% 41% 83% 41% 84% 84% 42% 86% 41% 82% 40% 72% 58% 39% 41% 70% 41% 43% 100%
<i>T. nigroviridis</i> β-defensin-like1	88% 42% 87% 43% 87% 42% 42% 84% 41% 87% 44% 74% 38% 40% 76% 79% 48% 39% 54% 39% 100%
<i>T. nigroviridis</i> β-defensin-like2	44% 93% 44% 92% 44% 92% 91% 46% 91% 44% 88% 41% 69% 61% 42% 44% 74% 47% 49% 84% 42% 100%
<i>S. maximus</i> β-defensin-like1	90% 42% 93% 43% 93% 42% 42% 90% 41% 91% 44% 77% 40% 41% 83% 84% 47% 38% 53% 41% 82% 43% 100%
<i>S. maximus</i> β-defensin2	46% 96% 46% 94% 46% 97% 94% 44% 94% 46% 91% 41% 41% 70% 61% 43% 46% 74% 46% 47% 87% 42% 90% 42% 100%
<i>P. olivaceus</i> β-defensin1	58% 41% 60% 42% 60% 40% 40% 59% 39% 59% 42% 48% 36% 37% 56% 54% 42% 41% 40% 37% 53% 43% 43% 59% 40% 100%
<i>P. olivaceus</i> β-defensin3	50% 39% 52% 40% 52% 38% 38% 51% 38% 51% 38% 40% 33% 32% 48% 47% 38% 34% 36% 36% 46% 40% 51% 38% 91% 100%
<i>P. olivaceus</i> β-defensin4	46% 33% 49% 34% 49% 32% 32% 48% 32% 48% 32% 36% 27% 27% 46% 43% 33% 30% 34% 28% 41% 34% 48% 32% 79% 81% 100%
<i>I. punctatus</i> β-defensin	66% 49% 66% 48% 66% 49% 49% 67% 49% 66% 48% 71% 44% 36% 60% 63% 46% 44% 64% 46% 62% 49% 62% 48% 40% 36% 31% 100%
<i>S. chuhansi</i> β-defensin	46% 99% 46% 98% 46% 100% 98% 44% 98% 46% 92% 41% 69% 61% 43% 46% 74% 47% 48% 84% 42% 92% 42% 97% 40% 38% 32% 49% 100%
<i>O. latipes</i> β-defensin	46% 90% 46% 89% 46% 91% 89% 46% 89% 46% 86% 42% 69% 64% 43% 46% 74% 48% 47% 83% 43% 88% 43% 91% 42% 41% 36% 50% 91% 100%
<i>L. haematocheila</i> β-defensin	44% 96% 44% 94% 44% 96% 98% 46% 96% 44% 90% 41% 71% 60% 42% 44% 72% 47% 48% 84% 42% 91% 43% 92% 41% 39% 33% 50% 96% 88% 100%
<i>A. dabryanus</i> β-defensin	47% 57% 47% 58% 47% 57% 56% 46% 56% 47% 59% 44% 53% 56% 48% 46% 59% 38% 38% 53% 47% 57% 41% 33% 28% 38% 57% 56% 56% 100%
<i>S. lalandi</i> β-defensin-like1	91% 43% 94% 44% 94% 43% 43% 89% 42% 92% 46% 77% 41% 42% 87% 84% 48% 39% 54% 39% 82% 42% 93% 43% 59% 51% 48% 62% 43% 43% 42% 47% 100%
<i>S. lalandi</i> β-defensin-like2	47% 98% 47% 99% 47% 98% 98% 46% 98% 47% 92% 41% 69% 62% 44% 47% 76% 47% 47% 84% 43% 91% 43% 94% 41% 39% 33% 48% 98% 89% 96% 58% 44% 100%
<i>M. musculus</i> β-defensin1	28% 34% 28% 33% 28% 34% 34% 28% 34% 29% 27% 30% 23% 28% 31% 32% 34% 32% 27% 34% 28% 34% 30% 30% 27% 33% 34% 33% 34% 27% 28% 33% 100%
<i>H. sapiens</i> β-defensin2	36% 42% 36% 43% 36% 42% 42% 37% 42% 37% 40% 34% 37% 33% 36% 34% 40% 39% 39% 39% 34% 41% 36% 42% 34% 32% 28% 40% 42% 41% 42% 33% 36% 43% 47% 100%
<i>O. aries</i> β-defensin1	36% 41% 36% 42% 36% 41% 41% 37% 41% 36% 40% 34% 37% 31% 37% 37% 39% 39% 36% 39% 41% 38% 42% 41% 40% 33% 44% 41% 41% 42% 34% 36% 42% 43% 56% 100%
<i>G. gallus</i> β-defensin1	43% 44% 43% 46% 43% 44% 44% 43% 44% 42% 43% 41% 38% 36% 40% 40% 41% 43% 41% 40% 40% 41% 43% 41% 44% 40% 30% 43% 44% 43% 44% 34% 42% 46% 47% 100%
<i>B. jararaca</i> β-defensin2	41% 43% 41% 42% 41% 43% 43% 40% 42% 41% 42% 42% 39% 38% 40% 41% 44% 39% 39% 39% 41% 39% 42% 41% 43% 43% 36% 41% 42% 40% 51% 44% 49% 100%

Supplementary Figure 1. Identity scores between vertebrate beta-defensins. Percentages were determined using the SIAS (Sequence Identity And Similarity) server (<http://imed.med.ucm.es/Tools/sias.html>), with BLOSUM62 scoring matrix and considering the length of multiple sequence alignment.

B. jararaca β-defensin2

G. gallus β-defensin1

O. aries β-defensin1

H. sapiens β-defensin1

D. rerio β-defensin1

S. lalandi β-defensin1

M. musculus β-defensin1

L. haematocheila β-defensin

A. dabryanus β-defensin

S. chuhansi β-defensin

O. latipes β-defensin

S. lalandi β-defensin2

M. musculus β-defensin2

P. olivaceus β-defensin3

P. olivaceus β-defensin4

I. punctatus β-defensin

S. salar β-defensin3

S. salar β-defensin4

T. nigroviridis β-defensin1

T. nigroviridis β-defensin2

S. maximus β-defensin1

S. maximus β-defensin2

D. rerio β-defensin3

G. morhua β-defensin

S. salar β-defensin1a

S. salar β-defensin2

A. regius β-defensin

L. crocea β-defensin1

L. crocea β-defensin2

D. rerio β-defensin1

D. rerio β-defensin2

E. coioides β-defensin

L. calcarifer β-defensin1

S. aurata β-defensin1

D. labrax β-defensin1

D. labrax β-defensin2

S. aurata β-defensin-like2

L. calcarifer β-defensin-like1

S. aurata β-defensin-like2

D. labrax β-defensin1