

**Additional file 10: Supplemental table S2**  
**S2) List of all species used in this analysis.**

|     |                        |                               |                          |
|-----|------------------------|-------------------------------|--------------------------|
| Dre | <i>D. rerio</i>        | <i>Danio rerio</i>            | zebrafish                |
| Gac | <i>G. aculeatus</i>    | <i>Gasterosteus aculeatus</i> | three spined stickleback |
| Gga | <i>G. gallus</i>       | <i>Gallus gallus</i>          | chicken                  |
| Hsa | <i>H. sapiens</i>      | <i>Homo sapiens</i>           | human                    |
| Mmu | <i>M. musculus</i>     | <i>Mus musculus</i>           | mouse                    |
| Ola | <i>O. latipes</i>      | <i>Oryzias latipes</i>        | Japanese medaka          |
| Ssa | <i>S. salar</i>        | <i>Salmo salar</i>            | Atlantic salmon          |
| Tni | <i>T. nigroviridis</i> | <i>Tetraodon nigroviridis</i> | pufferfish               |
| Tru | <i>T. rubripes</i>     | <i>Takifugu rubripes</i>      | fugu                     |
| Xma | <i>X. maculatus</i>    | <i>Xiphophorus maculatus</i>  | platyfish                |

## Additional file 10: Supplemental table S3

### S3) Accession numbers of all genes used in this analysis.

|                             |                        |                                   |
|-----------------------------|------------------------|-----------------------------------|
| <b>Tetrapod <i>Egfr</i></b> | <i>H. sapiens</i>      | NM_005228                         |
|                             | <i>M. musculus</i>     | NM_207655                         |
|                             | <i>G. gallus</i>       | NM_205497                         |
| <b>Teleost <i>egfra</i></b> | <i>D. rerio</i>        | NM_194424                         |
|                             | <i>G. aculeatus</i>    | ENSGACG00000017289                |
|                             | <i>O. latipes</i>      | ENSORLG00000017692                |
|                             | <i>T. nigroviridis</i> | ENSTNIG00000014840                |
|                             | <i>T. rubripes</i>     | ENSTRUG00000011834                |
|                             | <i>X.xiphidium</i>     | AY230135                          |
| <b>Teleost <i>egfrb</i></b> | <i>D. rerio</i>        | ENDARG00000053588                 |
|                             | <i>G. aculeatus</i>    | ENSGACG00000018079                |
|                             | <i>O. latipes</i>      | ENSORLG00000003577                |
|                             | <i>T. nigroviridis</i> | ENSTNIG00000013552                |
|                             | <i>T. rubripes</i>     | ENSTRUG00000017446                |
|                             | <i>X.xiphidium</i>     | X56317                            |
| <b><u><i>Egf</i></u></b>    | <i>H. sapiens</i>      | NM_001963                         |
|                             | <i>M. musculus</i>     | NM_010113                         |
|                             | <i>G. gallus</i>       | NM_001001292                      |
|                             | <i>D. rerio</i>        | NM_205731.1                       |
|                             | <i>G. aculeatus</i>    | ENSGACG000000016495               |
|                             | <i>O. latipes</i>      | ENSORLG00000020598                |
|                             | <i>T. nigroviridis</i> | ENSTNIG00000013026                |
|                             | <i>T. rubripes</i>     | ENSTRUG00000015626                |
| <b><u><i>Tgfa</i></u></b>   | <i>H. sapiens</i>      | NM_003236                         |
|                             | <i>M. musculus</i>     | NM_031199                         |
|                             | <i>G. gallus</i>       | NM_001001614                      |
|                             | <i>D. rerio</i>        | ENDARG00000053939                 |
|                             | <i>O. latipes</i>      | ENSORLG00000020001                |
|                             | <i>T. nigroviridis</i> | ENSTNIG00000014720                |
|                             | <i>T. rubripes</i>     | ENSTRUG00000015487                |
|                             | <i>X.maculatus</i>     | GU144294                          |
| <b><u><i>Areg</i></u></b>   | <i>H. sapiens</i>      | NM_001657                         |
|                             | <i>M. musculus</i>     | NM_009704                         |
|                             | <i>G. gallus</i>       | NM_001031537                      |
|                             | <i>D. rerio</i>        | ENDARG000000031246                |
|                             | <i>O. latipes</i>      | Chromosome 9: 4,580,759-4,584,795 |
|                             | <i>T. rubripes</i>     | scaffold_50: 1,516,226-1,520,278  |
| <b><u><i>Btc</i></u></b>    | <i>H. sapiens</i>      | NM_001729                         |
|                             | <i>M. musculus</i>     | NM_007568                         |
|                             | <i>G. gallus</i>       | NM_001004769                      |
|                             | <i>D. rerio</i>        | NM_001044764                      |
|                             | <i>O. latipes</i>      | ENSORLG00000006542                |
|                             | <i>T. nigroviridis</i> | ENSTNIG00000007543                |
|                             | <i>T. rubripes</i>     | ENSTRUG00000014500                |
|                             | <i>X.maculatus</i>     | GU144290                          |
| <b><u><i>Ereg</i></u></b>   | <i>H. sapiens</i>      | NM_001044764                      |
|                             | <i>M. musculus</i>     | NM_007950                         |
|                             | <i>G. gallus</i>       | NM_001001203                      |
|                             | <i>O. latipes</i>      | ENSORLG00000001759                |
|                             | <i>X.maculatus</i>     | GU144292                          |
| <b><u><i>Hb-egf</i></u></b> | <i>H. sapiens</i>      | NM_001945                         |
|                             | <i>M. musculus</i>     | NM_010415                         |
|                             | <i>G. gallus</i>       | NM_204849                         |
|                             | <i>D. rerio</i>        | NM_001100401                      |
|                             | <i>G. aculeatus</i>    | ENSGACG00000018355                |
|                             | <i>O. latipes</i>      | ENSORLG00000006983                |
|                             | <i>T. nigroviridis</i> | ENSTNIG00000008999                |
|                             | <i>T. rubripes</i>     | ENSTRUG00000000850                |
|                             | <i>X.maculatus</i>     | GU144293                          |
| <b><u><i>Epgn</i></u></b>   | <i>H. sapiens</i>      | NM_001013442                      |
|                             | <i>M. musculus</i>     | NM_053087                         |
|                             | <i>G. gallus</i>       | NM_001012404                      |
|                             | <i>D. rerio</i>        | XM_001344355                      |
|                             | <i>O. latipes</i>      | ENSORLT00000002186                |
|                             | <i>X.maculatus</i>     | GU144291                          |

# Additional file 10: Supplemental table S4

## S4) List of primers used for quantitative real-time PCR analyses

|                  | Forward primer              | T <sub>m</sub><br>(°C) | Reverse primer            | T <sub>m</sub><br>(°C) | Size<br>(bp) |
|------------------|-----------------------------|------------------------|---------------------------|------------------------|--------------|
| <b>Ola-ef1a</b>  | GCCCCTGGACACAGAGACTTCATCA   | 60,96                  | AAGGGGGCTCGGTGGAGTCCAT    | 60,43                  | <b>293</b>   |
| <b>Ola-egfra</b> | ATGGCAGCCCGTTTTCTGAAGTGGATC | 61,26                  | TGATCTCCAGGTTCTCCAGCACCA  | 59,09                  | <b>187</b>   |
| <b>Ola-egfrb</b> | CATCAGAGGGAGGTCCCTGTTTGTG   | 60,96                  | GCCCTTGCTCGAGCACTGCTGG    | 62,29                  | <b>265</b>   |
| <b>Ola-egf</b>   | AAGTTAATCTGGACTGATGTTGGAAGG | 56,7                   | GGGTGTGATTGAAAGCGCTGGCTT  | 59,09                  | <b>170</b>   |
| <b>Ola-tgfa</b>  | TTCGGTCTCACTTTGACGACT       | 52,4                   | TAAGAGAGAACACAGCACCATGAAC | 56,04                  | <b>244</b>   |
| <b>Ola-areg</b>  | GAAGGAGCCGGTGTGTGTAT        | 53,83                  | TCCCAAGGTAAGATGCCAAG      | 51,78                  | <b>227</b>   |
| <b>Ola-btc</b>   | CCTGAGGAGCTGACATTTACTGTG    | 57,68                  | TTGGTTCTTCTGTCCTTCTCCTTCT | 56,04                  | <b>271</b>   |
| <b>Ola-ereg</b>  | GGAGATGGTCCAAGGAAAAATG      | 52,97                  | TTAAAGAAGAAGTATGCTGCTCCAG | 54,4                   | <b>180</b>   |
| <b>Ola-hbegf</b> | CGATTCTGGAGACTATGAAATGGAC   | 56,04                  | CTTGTATTTCTTCAGGCAGGGATT  | 53,97                  | <b>175</b>   |
| <b>Ola-epgn</b>  | GAGTTTGCTTCTCGTCATCACATC    | 55,67                  | ACAGAACCCCTCATCCTTACTGTC  | 57,38                  | <b>181</b>   |