Supplemental Figure 7.

Alignments of recognizable exonic sequences of *S. paradoxus*. A - Exon 2 vs *O. orca* and Talpidae; exon 12 (non-coding sequences) vs *O. orca* (no homology against Talpidae 3'-UTR was found)

A

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Oorca      GAC GCC TGG AGG CTG CCA GGC ACC TAC ATG GTG GTG CTG AAG CAA GAG ACC CAC CGC TCG CAG ACG GAG CGC ACC GCC CGC CGC CTG CAG GCC CAG GCC 99
Ccristata  GAT GCC TGG AGC TTA CCA GGC ACC TAT ATG GTG GTG CTG ATG GAG GAC ACC CAC CGC CTG CAG ACA GAG CGC TTG GCC CAC ATG CTG CAG ACC CGA GCT 99
Saquaticus GAT GCC TGG AGG TTA CCG GGC ACC TAT GTG GTG ATG CTG ATG GAG GAC ACC CAC CGC CTG CAG ACA GAG CGC ACT GTC CAC ACC CTG CAG GCC CAA GCC 99
Ugracilis  GAT GCC TGG AGG TTG CCG GGC ACC TAT GTG GTG GTG CTG AAG GAG GAC ACC CAC CAA CCG CAG ACA GAG CGC ACT GCC TAC CTC CTG CAG GCC CAA GCC 99
Sparadoxus GAC ACC TGG AA- CTG CCG GGG GGC CTC GTG GTG GTG ACG --G GCG GAG ACC TGG GGT TCA CGG A-A GAG CAC --- --- --- --- --- --- --- --- --C 69

Oorca      GCC CAC CGC GGC TAC CTC ACC AAG ATC CTG CAC GTC TTC CAC GAC CTT GTC CCT GGC TTC CTG GTG AAG ATG AGC GGT GAC CTG CTG --- --- GAG CTG 192
Ccristata  GCT GGC CGG GGC TAC CTC GCT GAG ATC CTG CAC GTC TTC CAC GAC CTC TTT CCT GGC TTC CTG GTG AAG ATG AGT GGA GAC CTG CTG --- --- GAC CTG 192
Saquaticus GCC GAC CAG GGC TAC CTC ACC GAG ATC CTG CAC GTC TTC CAC GAC CTC TTT CCT GGC TTT CTG GTG AAG ATG AGT GGA GAC CTG CTG --- --- GAC CTG 192
Ugracilis  ACC CGC CGG GGC TAC CTC ATC GAG ATC CTA CAC GTT TTC CAT GAC CTT TTT CCT GGC TTC TTG GTG AAG ATG AGT GGA GAC CTG CTG --- --- GAC CTG 192
Sparadoxus GCC TGC TGG GGC TAC CGT GCT GAG ATC --- --- GTC TCC CAC TGC CTC GTC CCT GGC TTC CTG GTG AGG ATG GCC --T GAC CTG CTG ACC TGC GGC CTG 160
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B

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Oorca      CCATGCCTCTGGGGGTGCAGGGTGGCACTGACAAGGGGTGACGCTTCCCCACATGTGGCCAACGTTTCAAAGTGTCCAAAGGGCTTCTCCACCCACCTTCTCACAAGAGTTTCAGAGTAGTCCTGGGGCAAAGGCAGGGC
Sparadoxus CAACGCCTCTCGGGGTGCAAGCAGGCACAATAGTGGGGT--TGCTTCCCCAGATCTGGACAC--TTCCAAAGAGCC--AAGTGCCTCTCCATACACATTCCCATGGCA-TTTCAGCACAG-CATGGGACAGAGGCCAGCC
100%
Conservation
0%

Oorca      CTATATTCATACCCATTGGATAGATGAGGATGTTGAGGCCCGAAGCACGAGCCCAGGGTCAGCTGCCAAGATGCCTTGGTTCAAGTCCTTGCTCTTTAGAGAGATCTCCATCAGTTCGGTGATCTCCACGGGCCCTCCCA
Sparadoxus TC----TTCGACCCAGTGCATAGA---AGACATCGAGACCAGAAGAGTAAGCT-ATGATCAGTTGATTGGAGACCTTGGTTCAAGTCCTTGCTCTTTTTTGGGAGCGTTACTGGTTTTTGAAAGCTCC------CCTCCCA
100%
Conservation
0%

Oorca      GTCCTGCTGTTAAGACTCACCTCCCGAAGACAGCTTGTTGACAAAATTCCTAGCTCTTGTACCCACCAGCGGCATGACGGATGCAGCCAGATGTGTCCCAGGTGATCACGAGGCCGTGCCTTTGTTTCTCCCAGCTGCCC
Sparadoxus GGCCTGCA--CAGGACTCGCCTTCTGGAAGGTGGCTTTATTTAGTTTTCTAATCTTCTTTTGTTAACATTAGTAAAGCTTTTTGGAATAGCTTTTGTTGATGAAATTCTTATGTCGCAGACTCACTCTTTGGGACTGTG-
100%
Conservation
0%

Oorca      TCACCTGGCCTGGTCCCGGCTTTGCAGTCCACCTGGCATCAGCCTGCAGGGGGACATCACCCCAGGGATGACTCTTCAGTTCCCAGTGGAGGGCCACGTGCTCCATCCACCCTCTCACCCAGTCCTCGCACCTACCCTGC
Sparadoxus ------GACCAGACCTTCGCTTCCCAGCTGCCCACACCTCCCCC---------GCTCTGCCCCAGGCTTTGCTGTT-GGCCTGTGGTGGAGGCTCCTGTGGTCCCCACCCCGCCCCACTT-GTCTGCTCAC-TGCCCTGC
100%
Conservation
0%

Oorca      ACAGTACACAGTCATCCCCACTTCCGAAGGAAACTGGGAACCAGGGGTGGGGGTTGGGTGCCCGCCATTCACACAGTCAAGAAGTGAGGTGGTACCAGGGTATAAACCCAGATATGTCCCTAAAGCCAAGGCTCTTTTTG
Sparadoxus ACTGTACA--GTCACCCCCACTTTAGGGAAGA----GGAGCTGGGAAGAAGAGAGGGCCACCAG----------AGGGAGGTGGGTGTGACCCTGGGCTTGGC-------TGGCTCTAAAGCCTACCCTGCTTT-A
100%
Conservation
0%

Oorca      CTGCACCAGGTTGGGCCCCCCCCATCTTTATAACAACAGAGGCTCATTAGGGAACACAGACCTGGGGTAGCCCTGTGAGCAAGGACAGAAAAC---------TGGGCAAAAGGCACTGGCCGATTCACGGGGACCTGAGTG
Sparadoxus CTGCACCAAGCTGAGCACCTGCAGG---TAGGTCTCCCGAGGTTCAGACGGGCACACAGACCTGAGGCAGCCCTGGGATGAC--ACAGCACACCTCACTCCTGGGTAAATGGCAGTGGCCCCTTCTTGTGA--CCAGGTG
100%
Conservation
0%

Oorca      GAGAGGGCTTTGGAGGGATGCAGGGACGGAGGGGGAAGGGGAGAAGGGGGAGGTACAACTCTCCCTCCTCGAGCTCCCCTACCCCCATCCCCACCCAAGCAAACAAGCACGCATTTATCTTTTTGGTCTGTTTGTCTACA
Sparadoxus GAGC---CCCTGCAGGAGGGCCAGG----------CAGCTCTCCACGTTCCAGG--------CCCCATCTTCACCCAGGCAAC---ACACAGCTTTATCTTTTTGGTCTCTGTACGCAGC
100%
Conservation
0%

Oorca      ACTCTCTGTTGCCTTTTT-ACAGCAAGCAGCTTTTCTAGATCTCTGTTTTGCTTTTGTAACTTGAAGATATTTATTCTGGGTTTTGTAGCATTTTTATTATACAGTGACTTTTTAAAATAAAAACAA
Sparadoxus TTTCTCTGCTGCCTTTTTTATAGCAAA-AGATTTTCAAGGCCACT--TCTGCTTTGGAGGTTTATA-----TTATCCCGGGCTTTGCAGTGTCT--GCTATATGGTGACTTTT---AACATAAACCA
100%
Conservation
0%
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