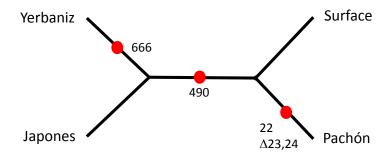
Mutation mapping in A. mexicanus nuclear gene most parsimonious unrooted trees

Mc1r (complete coding sequence, 972 bp)



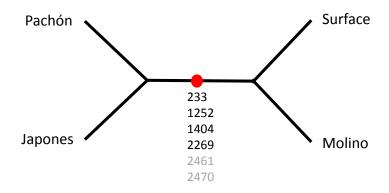
Accession numbers: FJ665983, FJ665984, FJ665985, FJ665986

Positions of the mutations

22: C/T non synonymousΔ23,24: 2 bp deletion490: C/T non synonymous666: G/A synonymous

Note: 'Pachon' haplotype is found also in Yerbaniz and Japones

Oca2 (complete coding sequence, 2499 bp)



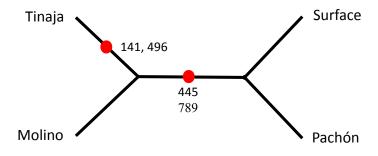
Positions of the mutations

233: G/A non synonymous 1252: G/A non synonymous 1404: C/T synonymous 2269: C/T non synonymous 2461: C/G non synonymous 2470: G/A non synonymous

Note: exon 24 containing position 2461 and 2470 is deleted in Pachon sequence.

Accession numbers: no accession numbers, based on Supplementary Table 2 in Protas ME *et al.*: Genetic analysis of cavefish reveals molecular convergence in the evolution of albinism. Nat Genet 2006, 38(1):107-111.

Mc4r (complete coding sequence, 1008 bp)

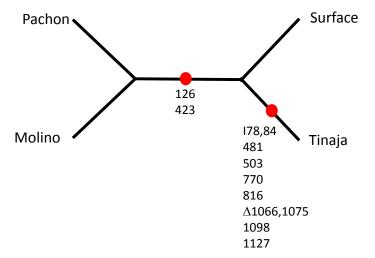


Positions of the mutations

141: C/T synonymous 445: G/A non synonymous 496: G/A non synonymous 789: G/T non synonymous

Accession numbers: no accession numbers, sequenes found a Supporting Information File of Aspiras AC *et al.*: Melanocortin 4 receptor mutations contribute to the adaptation of cavefish to nutrient-poor conditions. Proceedings of the National Academy of Sciences 2015, 112(31):9668-9673.

Mc3r (complete coding sequence, 1158 bp)

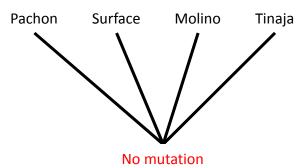


Positions of the mutations

I78,84: 6 bp insertion
126: G/A synonymous
423: T/C synonymous
481: G/A non synonymous
503: T/C non synonymous
770: G/C non synonymous
816: T/C synonymous
Δ1066,1075: 12 pb deletion
1098: G/A synonymous
1127: G/A non synonymous

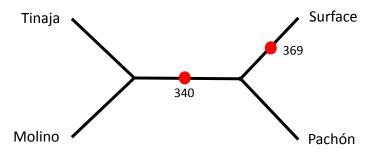
Accession numbers: no accession numbers, sequenes found a Supporting Information File of Aspiras AC *et al.*: Melanocortin 4 receptor mutations contribute to the adaptation of cavefish to nutrient-poor conditions. Proceedings of the National Academy of Sciences 2015, 112(31):9668-9673.

Leptin b (Lepb) (complete coding sequence, 483 bp)



Accession numbers: no accession numbers, sequenes found a Supporting Information File of Aspiras AC *et al.*: Melanocortin 4 receptor mutations contribute to the adaptation of cavefish to nutrient-poor conditions. Proceedings of the National Academy of Sciences 2015, 112(31):9668-9673.

Pomcb (complete coding sequence, 522 bp)

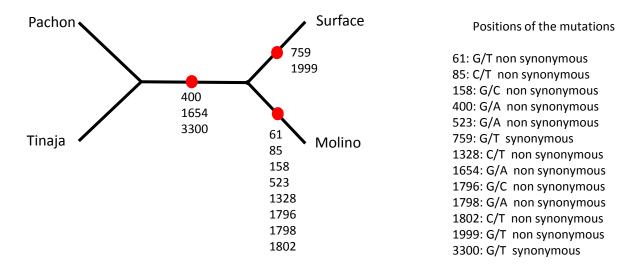


Positions of the mutations

340: G/A non synonymous 369: C/A synonymous

Accession numbers: no accession numbers, sequenes found a Supporting Information File of Aspiras AC *et al.*: Melanocortin 4 receptor mutations contribute to the adaptation of cavefish to nutrient-poor conditions. Proceedings of the National Academy of Sciences 2015, 112(31):9668-9673.

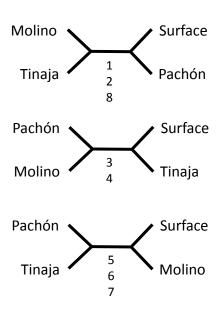
Leptin receptor (Lepr) (complete coding sequence, 3354 bp)



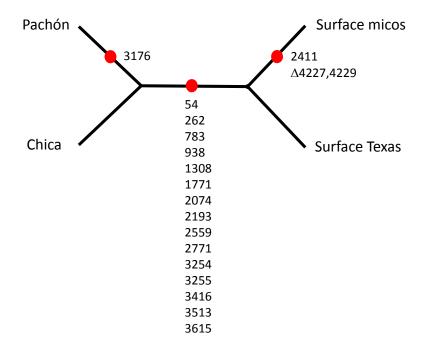
Accession numbers: no accession numbers, sequenes found a Supporting Information File of Aspiras AC *et al.*: Melanocortin 4 receptor mutations contribute to the adaptation of cavefish to nutrient-poor conditions. Proceedings of the National Academy of Sciences 2015, 112(31):9668-9673.

Informative sites in Mc4r, Mc3r, Lepr and Pomcb

		Genes						
	Mc4r		Mc3r		Lepr			Pomcb
	1	2	3	4	5	6	7	8
Surface	G	G	G	С	G	Α	G	G
Pachón	G	G	Α	Т	Α	G	Т	G
Tinaja	Α	Т	G	С	Α	G	Т	Α
Molino	Α	Т	Α	Т	G	Α	G	Α



Per1 (complete coding sequence, 4296 bp)

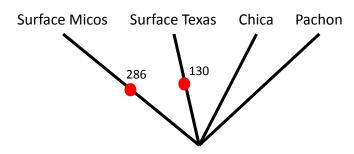


Accession numbers: KF737843, KF737844, KF737845

Positions of the mutations

54: C/T synonymous 262: T/A non synonymous 783: G/A synonymous 938: T/A non synonymous 947: G/A non synonymous 1308: G/C non synonymous 1771: G/A non synonymous 2074: G/C non synonymous 2193: G/C synonymous 2411: T/C non synonymous 2559: G/A synonymous 2771 G/A non synonymous 3176: C/T non synonymous 3254: C/A non synonymous 3255: C/T synonymous 3416: G/A non synonymous 3513: G/T non synonymous 3254: C/A non synonymous 3615: G/A synonymous Δ 4227,4229 : 3 bp deletion

Per2 (coding sequence, 481 bp)

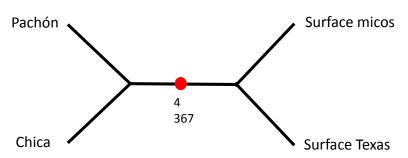


Accession numbers: KF737849, KF737850, KF737851

Positions of the mutations

130: C/T synonymous 286: G/A synonymous

Tef1 (coding sequence, 396 bp)

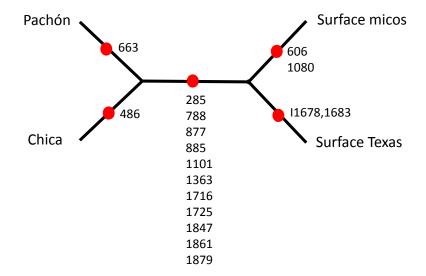


Accession numbers: KF737852, KF737853, KF737854

Positions of the mutations

4: G/A synonymous 367: G/T non synonymous

Cry1a (complete coding sequence, 1884 bp)



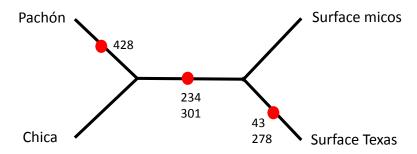
Accession numbers: KF737846, KF737847, KF737848

Positions of the mutations

285: G/T synonymous
486: G/A synonymous
606: C/A synonymous
603: C/T synonymous
788: G/A non synonymous
877: C/A non synonymous
885: C/T synonymous
1080: C/T synonymous
1101: G/C synonymous
1363: C/A non synonymous
11678,1683: 6 pb insertion
1716: C/A synonymous
1725: C/T synonymous
1847: C/T non synonymous
1861: G/C non synonymous

1879: C/A non synonymous

Cpd photolyase (complete coding sequence, 890 bp)



Accession numbers: KF737857, KF737858, KF737859

Positions of the mutations

43: C/Y non synonymous 234: T/C/Y synonymous 278: C/Y non synonymous 301: G/A non synonymous 428: C/T non synonymous

Note: Surface Texas population is polymorphic (T,C) at position 43, 234, 278.